

حمل الآن

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المراجعة رقم (1)

الترم الاول



Concept 1.1

1 Choose the correct answer:

- The human circulatory system consists of _____.
a. the heart b. veins
c. arteries d. heart and blood vessels
- Which of the following gases comes from the atmosphere and is absorbed by the leaves to make the plants' food?
a. Carbon dioxide b. Glucose c. Oxygen d. Hydrogen
- Stomata are pores on the surface of a plant's _____ that allow air to pass through.
a. roots b. leaves c. stem d. flower
- _____ carry the blood rich in oxygen and nutrients from the heart to all body parts.
a. Veins b. Stems c. Xylems d. Arteries
- _____ carry the blood rich in carbon dioxide gas back to the heart.
a. Arteries b. Veins c. Lungs d. Xylems
- Leaves contain _____ that captures the light energy and gives the leaves their green color.
a. a stoma b. chlorophyll c. glucose d. oxygen
- The photosynthesis process takes place inside the _____.
a. roots b. stems c. leaves d. flowers
- Plants use energy from the _____ to produce their food from water and carbon dioxide gas.
a. batteries b. fire c. sunlight d. wind
- Plants produce _____ as a source of energy to live and grow.
a. flowers b. carbon dioxide gas
c. seeds d. glucose (sugar)

- 10 The _____ system moves the blood rich in gases and nutrients through the body.
 a. digestive b. circulatory c. respiratory d. nervous
- 11 Plants use energy from the sunlight to produce their food from water and carbon dioxide gas through a process called _____.
 a. digestion b. photosynthesis c. evaporation d. breathing
- 12 Arteries carry the blood rich in _____ from the heart to the organs.
 a. oxygen b. nutrients c. carbon dioxide d. a and b
- 13 Plants and humans need _____ to survive.
 a. water b. air c. soil d. water and air
- 14 The _____ carries water and nutrients from the plant roots to the leaves.
 a. xylem b. leaf c. root d. air
- 15 Which part of the plant plays a similar role to the human circulatory system in order to maintain the survival of the plant?
 a. Stem b. Roots
 c. Leaves d. Transport system
- 16 The stem of the vine plant is a/an _____.
 a. wood stem b. upright stem c. climb stem d. tuber stem
- 17 The _____ support(s) all plant parts and transport water and nutrients to the rest of the plant.
 a. roots b. stem c. leaves d. flowers
- 18 Coconut seeds disperse by _____.
 a. water b. wind c. humans d. animals
- 19 Plum seeds disperse by sticking to animals' fur because they _____.
 a. are light seeds b. have spines
 c. are heavy seeds d. float on water
- 20 _____ seeds are light seeds, so they travel by wind.
 a. Tomato b. Apple c. Coconut d. Maple

2 Put (✓) or (X):

- 1 The transport system in plants does the same function as the circulatory system in humans. ()
- 2 Plants make their own food by respiration. ()
- 3 Humans and plants can make their food by the photosynthesis process. ()
- 4 The xylem helps the plant get water from the soil. ()
- 5 Arteries carry the blood rich in oxygen to all body parts. ()
- 6 All plants need soil to grow. ()
- 7 The plant's stem has hairs that absorb oxygen gas from the air. ()
- 8 A runner is a type of stem which extends underground. ()
- 9 Air enters the plant through the roots. ()
- 10 A phloem transports food materials from the leaves to other plant parts. ()
- 11 Potatoes have tuber stems which extend underground. ()
- 12 A xylem transports water rich in nutrients from the soil to the leaves. ()
- 13 Plants and humans are different in their ways of getting food. ()
- 14 Plants produce carbon dioxide and glucose during the photosynthesis process. ()
- 15 The method of seed dispersal depends on the shape and size of the seeds. ()
- 16 Photosynthesis process takes place in the plant roots. ()
- 17 The plant left in the dark has large numbers of green leaves. ()
- 18 Sunlight is very important for the plant to survive. ()
- 19 Coconut seeds can travel by wind because they are light seeds. ()
- 20 Animals fur helps tomato seeds disperse. ()

3 Correct the underlined words:

- 1 Chlorophyll in the plant's roots absorbs energy from the sunlight.
- 2 Potato plants have runner stems.
- 3 Plants make digestion process to make their own food.
- 4 Flowers allow gases to move in and out of the plant.
- 5 Shrubs have climb stems.
- 6 Stomata are responsible for the absorption of sunlight.
- 7 Plants take air through tiny holes on the stem called stomata.
- 8 The stem fixes the plant in the soil.
- 9 Plants use oxygen gas during the photosynthesis process.
- 10 Most flowers have climb stems.

4 Write the scientific term:

- 1 They fix the plant in the soil.
- 2 They are the reproductive parts of plants.
- 3 It's a part of the plant where sunlight allows carbon dioxide to combine with water during the photosynthesis process.
- 4 It's a part of the plant that supports the leaves and other plant parts.
- 5 It is found in the plant's leaves; it gives them their green color and absorbs energy from the Sun.
- 6 They're narrow holes spread on the plant's leaves that allow gases to come in and out of the plant.
- 7 The system that transports blood throughout the human body.
- 8 A blood vessel that carries the blood rich in carbon dioxide and low in oxygen.
- 9 Blood vessels carry oxygenated blood from the heart to all body parts.
- 10 The system that transports water, minerals, and sugars throughout the plant body.
- 11 They are tubes in the plant that transport food materials from the leaves to all plant parts.

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- 12 The vessels in a plant through which water and nutrients move up from the roots to the leaves.
- 13 The primary source of energy for all organisms on Earth.
- 14 The process by which plants make their own food using the energy of sunlight.
- 15 It is the process of transporting seeds from one place to another.
- 16 It's the process of producing new plants.
- 17 It's a gas produced (released) during photosynthesis and is needed for the respiration of living organisms.
- 18 The gas that the plant needs to make the photosynthesis process.
- 19 It's a system full of water that contains important minerals for plants to grow.

5 Cross out the odd word:

- 1 Carbon dioxide gas - Water - Glucose sugar - Sunlight.
- 2 Heart - Roots - Stems - Leaves
- 3 Green plant - Shelter - Water - Carbon dioxide gas
- 4 Arteries - Veins - Stem - Blood

6 Give reasons for:

- 1 Food is very important for humans.
- 2 Plants' roots have great functions.
- 3 Sunlight is very important for plants.
- 4 Plants are important for human life.
- 5 Chlorophyll is very important for plants.
- 6 The stem has a great function for plants.
- 7 Stomata have a great importance for plants.
- 8 Xylem and phloem are very important for plants.
- 9 Flowers have a great function for plants.
- 10 Photosynthesis process is very important for all living organisms.

7 What happens if:

- 1 A plant is placed in a dark place?
- 2 Bean seeds are placed on a wet paper towel and other seeds are placed in the soil?
- 3 Plants have no leaves?
- 4 Leaves have no chlorophyll?
- 5 Xylem is removed from the plant structure?

8 Complete the following sentences using the words between the brackets:

- 1 (xylem - Phloem - stomata - stems)
 - a. transports the glucose from the leaves to other plant parts.
 - b. Water and nutrients move up the plant's stem through the
 - c. Potatoes have tuber
 - d. The on the leaves allow gases to move in and out the plant.
- 2 (leaves - stem - seeds - roots)
 - a. The supports all plant parts.
 - b. A flower produces for reproduction.
 - c. The fix the plant in the soil.
 - d. Photosynthesis process is the process of making food inside the of the plant.
- 3 (water - carbon dioxide - nutrients - leaves - Flowers)
 - a. Gases enter plants through the
 - b. Plant roots absorb and from the soil.
 - c. are the reproductive parts of many plants.
 - d. Plants take gas from the air to make their food.
- 4 (Water - green leaves - Green plants - Sun)
 - a. The in a plant are responsible for making its food.
 - b. is a source of energy for the plant to make photosynthesis process.
 - c. are living organisms that can make their own food.
 - d. is a liquid substance that plants, animals and humans need to survive.

- 5 (carbon dioxide gas - sugar - stomata - water)
- Without the _____ in the leaves of plants, air can't move in or out the plant.
 - The food of a plant is a type of _____ which is made in their leaves by photosynthesis process.
 - During photosynthesis process, _____ and _____ are changed into glucose.

9 Choose from column (A) what suits it in column (B):

A

Column (A)

- Plants' roots
- Phloem
- Xylem

1 _____

2 _____

3 _____

Column (B)

- moves glucose from the leaves to other plant parts.
- transports water rich in nutrients up to the leaves.
- absorb water and nutrients from the soil.

B

Column (A)

- Chlorophyll
- Flowers
- Roots

1 _____

2 _____

3 _____

Column (B)

- are the reproductive parts of the plant.
- captures the light energy from the Sun.
- get water and nutrients from the soil.
- move the nutrients from the leaves to all plant parts.

C

Column (A)

- Potato
- Runners stem
- Vine

1 _____

2 _____

3 _____

Column (B)

- extends above the ground.
- plant has climb stems.
- plant has tuber stem.
- is the stem of most flowers.

D

Column (A)

1. Tomato seeds
2. Dandelion seeds
3. Coconut seeds

Column (B)

- a. disperse by animals' digestive systems
- b. disperse by floating on water
- c. disperse by wind
- d. disperse by sticking to animals' fur

1

2

3

10 Answer the following questions:

1. Mention two methods of seed dispersal.
2. What are the main parts of a plant?
3. a. This figure represents the _____ system.
b. _____ carry the blood rich in oxygen.
c. Veins transport blood from the _____ to the _____.
4. Classify the following plants according to the way of dispersal:
(By wind - Sticking to clothes - By water)



Plum seeds



Coconut seeds



Dandelion seeds

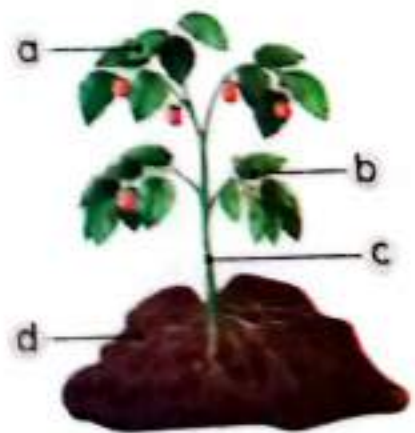
11 Complete the following sentences using the words between the brackets:

(Root - Leaves - carbon dioxide gas - glucose - water - Flower - Stem - oxygen gas - sunlight)

1. Label the opposite figure:

a. _____ b. _____
c. _____ d. _____

2. During photosynthesis process, the plant takes _____, _____ and _____; to produce _____ and _____.



1 Choose the correct answer:

- 1 The desert food web starts with the
 a. rabbit b. grass c. algae d. insects
- 2 Food chains include producers, consumers and decomposers. Which of the following is an example of one of these three species?
 a. Grass, rabbit, fungi b. Leaf, eagle, robin
 c. Seed, mouse, owl d. Fly, spider, mantis
- 3 is an area that consists of living organisms and nonliving things.
 a. Ecosystem b. Space c. Sun d. Star
- 4 A snake is a predator for mice, while a snake is considered prey for
 a. rabbits b. frogs c. eagles d. deer
- 5 Plants are considered that get their energy from the Sun.
 a. decomposers b. consumers
 c. producers d. nonliving things
- 6 The mouse eats grass and seeds, while the owl eats the mouse. This is an example of
 a. meat-eating animals b. a food web
 c. plant-eating animals d. a food chain
- 7 Any food chain starts with
 a. producers b. decomposers c. fungi d. consumers
- 8 Choose the correct order of the food chain:
 a. Plant → hawk → snake → mouse
 b. Plant → mouse → hawk → snake
 c. Plant → mouse → snake → hawk
 d. Hawk → snake → mouse → plant
- 9 Insects are considered because they feed on producers.
 a. producers b. primary consumers
 c. decomposers d. secondary consumers

- 10 Which of the following living organisms is considered a producer?
 a. Fungus b. Pine tree c. Snake d. Cow
- 11 A snake eats a rabbit which eats grass; the snake is a _____ in the food chain.
 a. primary consumer b. secondary consumer
 c. producer d. tertiary consumer
- 12 Energy flows from one organism to another. Which is the correct direction of the energy flow?
 a. From consumers to producers b. From producers to consumers
 c. From predators to prey d. From producers to predators
- 13 _____ in food webs are consumers.
 a. Plants b. Predators c. Bacteria d. Algae
- 14 When a squirrel dies in the desert, its body will _____.
 a. grow b. freeze c. stay d. decompose
- 15 _____ are organisms that eat other living organisms to get their energy.
 a. Producers b. Consumers
 c. Plants d. Decomposers
- 16 _____ is the process which happens to all dead organisms.
 a. Decomposition b. Breathing c. Photosynthesis d. Digestion
- 17 All the following are consumers, except _____.
 a. animals b. humans c. birds d. worms
- 18 All the following are decomposers, except _____.
 a. grass b. fungi c. millipeds d. bacteria
- 19 _____ is/are consumers.
 a. Plants b. Grass c. Humans d. Bacteria
- 20 _____ always benefit the soil.
 a. Decomposers b. Consumers c. Rabbits d. Snakes
- 21 If there are no predators in an ecosystem, the other consumers will _____.
 a. die b. not be affected c. increase d. decrease
- 22 What is the scientific term for the complex interactions between producers, consumers, and predators?
 a. A suitable environment b. Food chain
 c. Food web d. The natural habitat

- 23 Food webs show _____
- nonliving things in the environment
 - multiple feeding relationships between living organisms
 - the way heat is retained in the environment
 - substances polluting the atmosphere

2 Put (✓) or (X):

- Food webs show how many organisms share food resources within ecosystems. ()
- Producers and bacteria are considered examples of consumers. ()
- Consumers complete the decomposition process. ()
- A food web is made up of two food chains or more. ()
- Consumers come after decomposers in the food chain. ()
- Decomposers include worms, locusts and fungi. ()
- Photosynthesis process is very important for life on Earth. ()
- Any food chain starts with a consumer. ()
- Energy does not flow between two consumers at the beginning of a food chain. ()
- Hawks, crocodiles, and sharks are producers. ()
- Seeds and carrots are examples for producers. ()
- In an ecosystem that contains only rabbits, mice, snakes, and eagles, if snakes disappear completely, the number of rabbits will increase. ()
- The relationship between grass and rabbit is a "prey-predator" relationship. ()
- Birds are tertiary consumers because they eat insects that feed on plants. ()
- The consumer eaten by another consumer is known as a predator. ()
- Dead organisms need energy. ()
- Consumers use carbon dioxide gas to make their food. ()

- 18 Humans and animals are consumers. ()
- 19 The food web will be damaged if the producers die. ()
- 20 Producers and decomposers can make their own food. ()
- 21 The grass-eating animals are the primary consumers in the food chain. ()
- 22 Plants and humans are different in their ways of getting food. ()

3 Complete the following sentences using the words between the brackets:

(Predator - decomposition - Humans - ecosystem - animals - energy - millipedes - producers - Food web - food - Worms - secondary)

- 1 The process restores the energy to the ecosystem.
- 2 When a hawk eats a snake, this means that the hawk is a
- 3 An is an area that provides food, water, and shelter to all living organisms that live there.
- 4 and are consumers.
- 5 Both humans and animals cannot produce their own
- 6 is an interaction of a food chain.
- 7 In any food chain, plants are considered a
- 8 and are two types of decomposers.
- 9 In a food chain, the energy flows from a primary consumer to a consumer.
- 10 A food web is a model that describes the flow between living organisms in an ecosystem.

4 Write the scientific term:

- 1 It's a natural process through which the nutrients found in dead organisms' bodies return to the ecosystem.
- 2 The final link in the food chain.
- 3 It's a group of living organisms that can produce their own food.
- 4 They are animals that eat plants.
- 5 They are consumers that feed on primary consumers.
- 6 It's a group of living organisms that feed on secondary consumers.

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- 7 It is a model that shows one linear set of feeding relationships and energy flow between living organisms.
- 8 The animal that is eaten by another animal.
- 9 It's a community that contains living organisms and nonliving things.
- 10 It's a group of interconnected food chains.
- 11 It is the primary source of energy for all living organisms on Earth.

5 Cross out the odd word:

- 1 Foxes - Lions - Tigers - Frogs
- 2 Eagle - Hawk - Rabbit - Crocodile
- 3 Bacteria - Cows - Birds - Snakes

6 Choose from column (A) what suits it in column (B):

A

Column (A)

- 1 Producers
- 2 Decomposers
- 3 Food web
- 4 Decomposition process

Column (B)

- a. increase soil fertility.
- b. is made up of several interconnected food chains.
- c. is a process in which the nutrients are returned to the ecosystem.
- d. get energy from the Sun.

1 _____

2 _____

3 _____

4 _____

B

Column (A)

- 1 Prey
- 2 Secondary consumers
- 3 Primary consumers
- 4 Predators

Column (B)

- a. are animals that feed on other animals
- b. are organisms which eat animals that eat plants.
- c. are organisms that eat plants.
- d. are animals that are hunted by other animals.

1 _____

2 _____

3 _____

4 _____

7 Give reasons for:

- 1 A rabbit is considered a primary consumer.
- 2 An ecosystem is very important for the survival of living organisms.
- 3 A hawk is a meat-eating animal.
- 4 Hawks depend on plants to get energy.
- 5 The Sun is considered the main source of energy.
- 6 Green plants are considered producers.
- 7 Animals and humans are considered consumers.
- 8 Decomposers play an important role in the ecosystem.

8 What happens if:

- 1 All primary consumers disappear from a certain food chain?
- 2 An organism in an ecosystem disappears?
- 3 A living organism dies?
- 4 Producers (grass) are removed from any ecosystem?
- 5 The number of predators increases in an ecosystem?
- 6 Decomposers disappear from an ecosystem?

9 Answer the following questions:

- 1 Arrange the following to form a food chain:



Snake

a.



Fox

b.



Mouse

c.

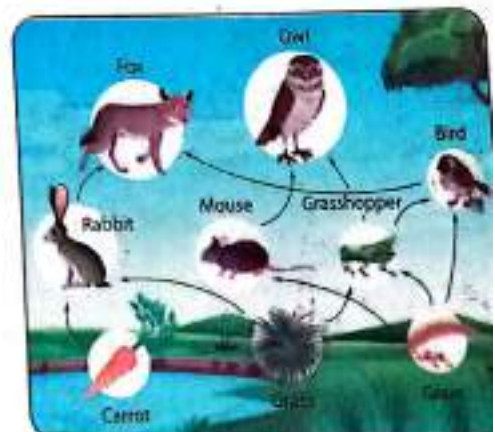


Grass

d.

- 2 a. The opposite figure represents a
(food chain – food web)

- b. Form a food chain that includes
a producer, a primary consumer,
and a secondary consumer.



Concept 1.3 Changes in Food Webs

1 Choose the correct answer:

- 1 The process that happens to all dead organisms is known as
 a. respiration
 b. photosynthesis
 c. digestion
 d. decomposition
- 2 All the following organisms are considered producers, except
 a. hawks
 b. algae
 c. green plants
 d. marine microorganisms
- 3 All the following destroy the ecosystem, except
 a. gentle rain
 b. heavy rain
 c. drought
 d. pollution
- 4 If the grass is removed from an ecosystem, will die first.
 a. producers
 b. primary consumers
 c. secondary consumers
 d. decomposers
- 5 Energy could be recycled back into the ecosystem by the
 a. predators
 b. prey
 c. consumers
 d. decomposers
- 6 Corals get harmed when
 a. water becomes too warm
 b. they ingest microplastics
 c. fish take them as shelter
 d. a and b
- 7 The food chain describes the process by which are transferred among living organisms in an ecosystem.
 a. consumers
 b. decomposers
 c. producers
 d. energies
- 8 If the climate is suitable, the population of a species will
 a. remain constant
 b. become zero
 c. decrease
 d. increase

- 9 Which of the following human activities harm marine ecosystems?
- a. Overfishing
 - b. Throwing wastes in water
 - c. Climate change
 - d. All the previous answers
- 10 All the following examples represent human bad activities, except _____.
- a. overfishing
 - b. pollution
 - c. floods
 - d. cutting trees
- 11 _____ are considered top predators.
- a. Tigers
 - b. Rabbits
 - c. Frogs
 - d. a and c
- 12 Algae in coral reefs provide food for _____ directly.
- a. primary consumers
 - b. secondary consumers
 - c. producers
 - d. top predators
- 13 In any food chain, the symbol (→) represents the transfer of _____.
- a. pollution
 - b. force
 - c. energy
 - d. motion
- 14 As the result of pollution in an ecosystem, the number of living organisms _____.
- a. decreases
 - b. increases
 - c. doesn't change
 - d. is doubled
- 15 _____ live on the top of mountain cliffs and feed on small fish.
- a. Turtles
 - b. Corals
 - c. Algae
 - d. Seabirds
- 16 All the following cause habitat loss, except _____.
- a. adding roads
 - b. recycling plastic
 - c. overfishing
 - d. throwing waste in water
- 17 The main source of energy on Earth is _____.
- a. the Sun
 - b. humans
 - c. decomposers
 - d. consumers

2 Complete the following sentences using the words between the brackets:

- 1 The marine food web starts with (algae - parrotfish)
- 2 Heavy rains may the desert ecosystem. (improve - destroy)
- 3 Rabbits die quickly when disappear(s) from the ecosystem.
(hawks - grass)
- 4 Seabirds feed on small fish; they build their nests
(in water - on the top of mountain cliffs)
- 5 have bad effect on the marine life. (Plastics - Coral reefs)
- 6 Coral reefs the seawater to get their food. (filter - pollute)
- 7 When coral bleaching happens, corals will
(die - grow healthy)
- 8 The water of a lake during extreme hot climate.
(increases - decreases)
- 9 Habitat restoration projects the ecosystem. (benefit - harm)
- 10 Pollution harms the ecosystem as the number of living organisms
.....
(decreases - increases)
- 11 can make their own food. (Fish - Microorganisms)
- 12 Gentle rain the desert ecosystem. (harms - improves)
- 13 The of water temperature causes the migration of
microorganisms to other habitats. (increase - decrease)

3 Write the scientific term:

- 1 They are consumers that exist at the top of food chains.
- 2 They're living organisms that recycle the energy into the ecosystem.
- 3 They are consumers that feed on secondary consumers.
- 4 It's a group of interconnected food chains.
- 5 It is an area in the ocean where scientists take care of small pieces of corals until they grow up.

- 6 They're flying living organisms that build their nests on the top of mountain cliffs and feed on small fish.
- 7 It is the number of organisms of one type of species living in an area.
- 8 It's the increase or decrease in the number of species of living organisms in an environment.
- 9 A human activity that affects marine food webs and makes the number of fish decrease.
- 10 They're small pieces of plastics in the size of rice grains.
- 11 The process of returning a habitat back to its natural state.
- 12 They're small organisms that live in cold and are considered producers in the marine food web.
- 13 When water temperature rises up, the coral reef turns completely into white.

4 Put (✓) or (X):

- 1 Corals and sea urchins are examples of top predators in the marine ecosystem. ()
- 2 Seabirds feed on small fish to get energy. ()
- 3 A healthy marine habitat provides living organisms with food and shelter. ()
- 4 People and engineers must help scientists in restoration ecology. ()
- 5 When water temperature decreases, coral bleaching happens. ()
- 6 If coral reefs are destroyed, many marine food chains will be destroyed. ()
- 7 Microorganisms are producers in some marine food chains. ()
- 8 Habitat loss may cause extinction of any species of animals. ()
- 9 Consumers may migrate if the producers were removed from the ecosystem. ()
- 10 A desert food chain doesn't contain any type of fish. ()

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- 11 If organisms disappear in the ecosystem, this may lead to the destruction of the ecosystem. ()
- 12 Top predators are consumers that exist at the top of food chains. ()
- 13 Energy transfers from consumers to producers. ()
- 14 Heavy rain harms the desert ecosystem. ()
- 15 Coral reefs are considered producers. ()
- 16 Plastic pollution harms the marine environment. ()

5 Correct the underlined words:

- 1 Using wooden forks and cloth grocery bags increase the plastic pollution.
- 2 Gentle rain causes floods and damages the desert ecosystem.
- 3 Plastic is healthy and smooth, so it causes harm to the marine living organisms.
- 4 Human is considered a producer.
- 5 Algae are producers in the desert ecosystems.

6 Give reasons for:

- 1 A healthy habitat is very important for all living organisms.
- 2 Gentle rains create a healthy ecosystem.
- 3 Microplastics have bad effects on corals.
- 4 Heavy rains harm the ecosystem.
- 5 Plastics are so harmful for marine ecosystems.
- 6 The nursery plays an important role in the recovery of coral reefs.
- 7 Coral reefs are important for marine organisms and humans.

7 What happens if:

- 1 The water temperatures rises (concerning coral reefs)?
- 2 The temperature of water containing microorganisms increases?
- 3 The number of one species increases a lot (concerning food resources)?
- 4 The small lakes are exposed to extreme hot climate?

- 5 The amount of plastics in water rises?
6 The coral reefs are bleached?
7 Seawater becomes warm (concerning microorganisms)?
8 Sunlight falls on the plastic waste in an ocean?
9 Heavy rains fall on the desert?
10 The grass is removed from an ecosystem?

8 Complete the following sentences using the words between the brackets:

- 1 (flooding - extinction - consumers - decomposers)
a. Fungi and bacteria are two types of
b. Habitat loss is one of the main causes of
c. In food chains, energy transfers from producers to
d. Heavy rain causes which destroys the desert ecosystems.
- 2 (ecosystem - increases - nursery - decreases)
a. When the number of secondary consumers decreases, the number of primary consumers and the amount of producers
b. An is an area that provides food, water, and shelter to all living organisms that live there.
c. A is the area in the ocean where the small pieces of corals are nurtured.
- 3 (producers - Energy - shelter - primary consumers)
a. transfers between animals in a food web to help them do their activities and survive.
b. Marine microorganisms are
c. Secondary consumers can eat
d. Coral reefs provide marine organisms with

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- 4 (sea turtles - coral reefs - small fish - microorganisms)
- a. Seabirds feed on _____.
 - b. Some marine animals cannot differentiate between food and plastic, such as _____.
 - c. The _____ are from the most diverse ecosystems.
 - d. When water becomes warm, _____ will move to cooler water.
- 5 (energy - pollution - Seabirds - coral bleaching)
- a. When water temperatures rises, _____ happens.
 - b. Throwing plastic waste into a river causes water _____.
 - c. When a predator feeds on prey, the predator gets _____ from the prey.
 - d. _____ dive deep down into the sea to feed on small fish.
- 6 (Microplastics - cold - Pollution - die - warm)
- a. Microorganisms live in _____ water.
 - b. If the grass was removed from the ecosystem, primary consumers that feed on plants will _____.
 - c. _____ is the harm that happens to air, soil, and water due to human bad activities.
 - d. _____ and _____ water harm the coral reefs.
- 7 (Sun - floods - Small fish - producers - tertiary consumers)
- a. Heavy rain in the desert lead to _____ which harm the ecosystem.
 - b. _____ feed on microorganisms floating on the surface of the sea.
 - c. Microorganisms are considered _____.
 - d. Microplastics are formed when plastic is broken down by the _____.
 - e. Secondary consumers are considered prey for _____.

9 Choose from column (A) what suits it in column (B):

A

Column (A)

- 1 Microorganisms
- 2 Population Change
- 3 Microplastics

Column (B)

- a. means the increase or decrease in the number of one species in any area.
- b. are small plastic pieces that are even smaller than a grain of rice.
- c. are producers in the marine food web.

1 _____ 2 _____ 3 _____

B

Column (A)

- 1 Habitat
- 2 Nursery
- 3 Habitat loss

Column (B)

- a. is one of the main causes of extinction.
- b. is the environment that the living organism lives in.
- c. is an area in the ocean where the small pieces of corals are nurtured.

1 _____ 2 _____ 3 _____

C

Column (A)

- 1 Overfishing
- 2 Gentle rain in the desert
- 3 Heavy rain in the desert

Column (B)

- a. makes the desert ecosystem get better.
- b. leads to floods.
- c. may destroy the marine ecosystem.

1 _____ 2 _____ 3 _____

D

Column (A)

- 1 Coral bleaching
- 2 Seabirds
- 3 Microorganisms
- 4 Clams

Column (B)

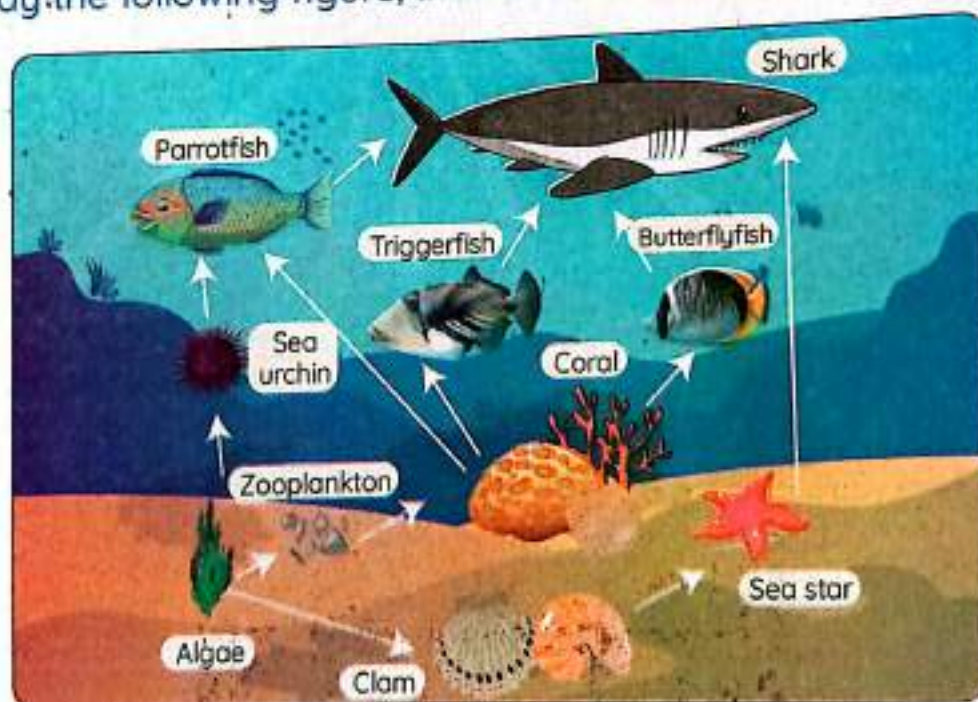
- a. can make their own food.
- b. means the coral turns into white.
- c. are primary consumers.
- d. dive to search for food.

1 _____ 2 _____ 3 _____ 4 _____

10 Answer the following questions:

- 1 What are the reasons of losing a habitat?
- 2 Mention one of the human activities that affect the marine environment.
- 3 Form food chains from the following living organisms:
 - a. Rabbit - hawk - snake - green plant
 - b. Parrotfish - algae - shark - coral
 - c. Sea star - algae - shark - clam
 - d. Human - grass - chicken
 - e. Snake - carrot - hawk - rabbit - fungi
 - f. Duck - grass - fox - bacteria
 - g. Giraffe - lion - fungi - acacia tree

- 4 Study the following figure, then answer the questions:



- a. This figure represents a ecosystem.
- b. are considered producers.
- c. can feed on sea urchins or corals.
- d. and feed on algae.
- e. is the top predator.

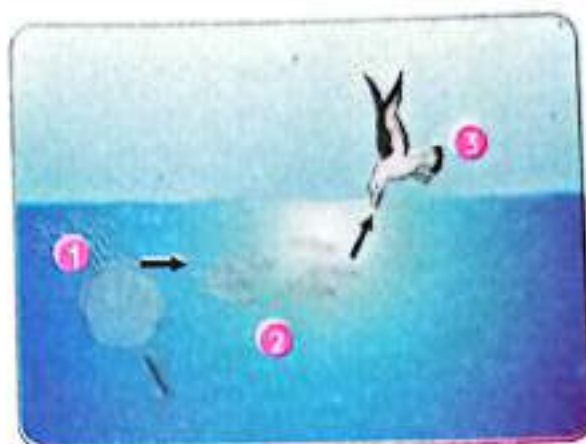
- 5 Study the opposite figure, then answer the questions.

- a. This figure represent a _____
(food web - food chain)
- b. _____ harms this ecosystem.
(Gentle rain - Heavy rain)
- c. The _____ is considered a top predator.
(mouse - eagle)



- 6 Study the opposite figure, then choose the correct answer:

- a. This food chain represents
a _____. (marine food chain -
desert food chain)
- b. _____ are considered
producers of this ecosystem.
(Algae - Microorganisms)



- 7 Study the following figure, then answer the questions:



- a. This figure represents _____.
- b. It happens when the temperature of water _____.

1 Choose the correct answer:

- 1 _____ is an example of gaseous matter.
a. Oil b. Air c. Wood d. Milk
- 2 The movement of particles of water is slower than those of _____.
a. wood b. glass c. plastic d. oxygen
- 3 Which of the following matter has no definite volume or shape?
a. Ice b. Water c. Oil d. Oxygen
- 4 A _____ is used to measure the weight of objects.
a. measuring cup b. thermometer
c. meter d. spring scale
- 5 How are solids unique from other forms of matter?
a. Solids take the shape of any container.
b. Solids have a definite size and shape.
c. Solids can be poured.
d. Solids fill whatever container they are put in.
- 6 All matter is made of _____.
a. molecules b. proteins c. cells d. atoms
- 7 Matter is _____.
a. anything that has mass only
b. anything that has mass and takes up space
c. only water in different states d. only solids
- 8 Ice is an example of the _____ state of water.
a. solid b. gaseous c. liquid d. a & b
- 9 _____ has a definite volume and no definite shape.
a. Air b. Ice c. Water d. Wood
- 10 We can measure the temperature using a _____.
a. thermometer b. scale
c. meter stick d. measuring tape

- 11 All the following examples represent solid states, except
 a. oil b. books c. wood d. rocks
- 12 Water takes the of its container.
 a. volume b. mass c. color d. shape
- 13 Which matter has a definite shape and a definite volume?
 a. Water b. Ice c. Oil d. Air
- 14 Particles of vibrate around their places.
 a. oxygen b. wood c. water d. vinegar
- 15 All of these substances are gases, except
 a. water vapor b. oxygen c. air d. stone
- 16 An example of liquid is
 a. vinegar b. rock c. pencil d. oxygen
- 17 Water can be found in a gaseous state in the form of
 a. ice b. water vapor
 c. oxygen d. frozen water
- 18 The matter can be poured in any container.
 a. liquid b. gaseous c. solid d. b and c
- 19 If ice is transferred from a container to another, its volume
 a. increases b. doesn't change
 c. decreases to its half d. doubles
- 20 Scientists use to see the components of one blood cell.
 a. regular microscopes b. naked eyes
 c. medical glasses d. electron microscopes

2 Write the scientific term:

- 1 It's the state of water after its freezing.
- 2 It's anything that has mass and occupies space.
- 3 It's the state of matter that has a fixed shape and volume.
- 4 It's the state of matter in which the particles vibrate or move around their places.

Final Revision

- 5 It's the state of matter that has a definite volume, but no definite shape.
- 6 It's the state of matter that has no definite shape or volume.
- 7 It's the state of water when its temperature is between 0°C and 100°C .
- 8 It's a state of matter that can be poured in a container and takes its shape.
- 9 It's the state of matter that keeps its shape and its particles are packed tightly.
- 10 It's the state of matter in which the particles have a lot of energy and move very freely.
- 11 It's a tool that is used to measure the length of a wall or room.
- 12 It's a device that is used to measure the weight of an object.
- 13 They are the building units of matter.
- 14 It is a measurement of the amount of matter.
- 15 It's the property of matter which is measured by a measuring cup.
- 16 It's a process in which ice changes into water.
- 17 It's a process in which water changes into ice.
- 18 It is a copy that is similar to the real thing.
- 19 It's a model of the whole world that is made in the shape of a large ball.

3 Put (✓) or (x):

- 1 When you blow a balloon, the particles of air move very slowly. ()
- 2 Water vapor is the solid state of water. ()
- 3 Particles inside matter are in a continuous motion. ()
- 4 All states of matter have the same properties. ()
- 5 In a gaseous state, the particles can keep their shape. ()
- 6 A liquid has a definite shape and volume. ()
- 7 Matter can so small that we can't see it, such as germs. ()
- 8 Models help us see germs without a microscope. ()
- 9 Particles of gas are packed tightly together. ()
- 10 Milk takes the shape of the container that it is poured in. ()
- 11 All matter are made up of very large particles. ()

- 12 Matter has four states. ()
- 13 Models are a great way to see things at the right size. ()
- 14 A solar system model tells us about planets; which one is the biggest and which one is the closest to Earth. ()
- 15 To measure the height, we use scales. ()
- 16 Scientists use regular microscopes to see the components of one blood cell. ()
- 17 Particles of gold are different from the particles of iron. ()
- 18 Solids can be poured and take the shape of their container. ()
- 19 The particles of ice move faster than the particles of water. ()
- 20 Matter can change from one state to another. ()

4 Cross out the odd word:

- 1 Plastic - Iron - Water - Wood
- 2 Water - Milk - Sand - Oil
- 3 Sound - Light - Ice
- 4 Oil - Milk - Wood - Tea
- 5 Air - Water vapor - Ice - Carbon dioxide gas
- 6 Water - Air - Light - Wood

5 Give reasons for:

- 1 Salt is matter.
- 2 A book has a definite shape and a definite volume.
- 3 Wood is a solid matter.
- 4 Oil is considered a liquid.
- 5 Steam is a gaseous state.
- 6 Air has no definite shape or volume.
- 7 Solid particles can keep their shape.
- 8 The chef puts vegetables in a freezer or refrigerator.

6 What happens if:

- 1 Ice cubes are exposed to heat (concerning the state and the speed of the particles)?
- 2 Water boils for a long time?
- 3 You leave a cup of milk in the freezer?
- 4 Water is poured into a cup of water?
- 5 Liquid changes into gas (concerning the speed of the particles)?

7 Complete the following sentences using the words between the brackets:

- 1 (Volume - gaseous - solid - Matter)
 - a. _____ is anything that has mass and takes up space.
 - b. Water vapor is an example for _____ state.
 - c. The volume and shape don't change in the _____ matter.
 - d. _____ is the amount of space that the matter takes.
- 2 (solar system - gaseous - Earth - solid)
 - a. In _____ state, the particles are packed tightly together.
 - b. A _____ model shows us all planets.
 - c. The particles inside a _____ move very freely.
 - d. A globe is a model of the _____.
- 3 (freely - slowly - gaseous - microscopes - measuring tape - Liquid)
 - a. The particles of the gaseous state move _____.
 - b. _____ is a state of matter that can be poured and takes the shape of the container.
 - c. You can use a _____ to measure the length of a table.
 - d. In _____ matter, the particles have a lot of energy.
 - e. Scientists use _____ to see tiny particles.
- 4 (definite - Volume - no definite - shape)
 - a. _____ is the amount of space occupied by matter.
 - b. Gas has _____ volume.
 - c. Water takes the _____ of its container.
 - d. Solids have _____ shapes.

5 (Oil - gold - particles - mass - gaseous)

- Particles of _____ are very close to each other.
- _____ is a liquid state of matter.
- The volume and shape change in the _____ state
- Matter consists of very tiny identical _____.
- Matter is anything that has _____ and occupies space.

8 Choose from column (A) what suits it in column (B):

A

Column (A)

- Gaseous state
- Liquid state
- Solid state

Column (B)

- in which the particles are packed in a neat and ordered arrangement, so that they can keep their shape.
- in which the particles are not held together and move very quickly.
- in which the particles are held together more loosely and take the shape of their container.

1 _____ 2 _____ 3 _____

B

Column (A)

- Oxygen
- Desk
- Juice

Column (B)

- Solid state
- Liquid state
- Gas state

1 _____ 2 _____ 3 _____

C

Column (A)

- Matter
- Temperature
- Model

Column (B)

- is a copy that is similar to the real thing.
- is anything that has mass and takes up space.
- is one of the properties of matter that is used to measure how hot or cold the matter is.

1 _____ 2 _____ 3 _____

D

Column (A)

- 1 Ice
- 2 Water
- 3 Water vapor

Column (B)

- a. takes the shape of the container, and its particles are not so near.
- b. has a fixed shape, and its particles are very near to each other.
- c. does not have a fixed shape, takes up all the space of the container and the particles are far from each other.

1 _____ 2 _____ 3 _____

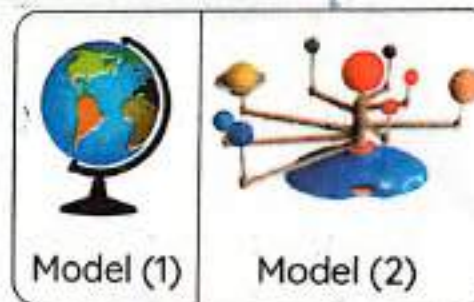
9 Classify the following:

Oil - Water vapor - Glass - Wood - Nitrogen - Water

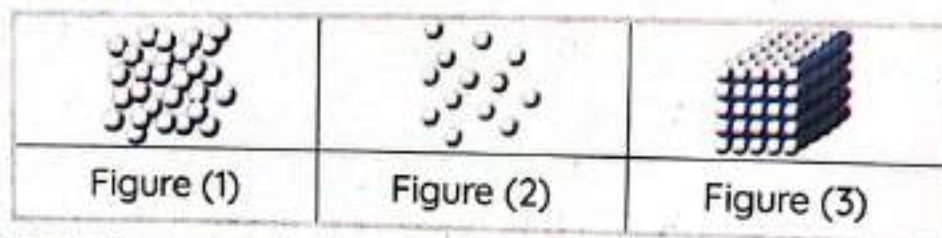
Solid	Liquid	Gas
_____	_____	_____
_____	_____	_____
_____	_____	_____

10 Answer the following questions:

- 1 a. Which model is the biggest in real?
(Model 1 - Model 2)
- b. A globe represents a model of _____.
- c. The Earth is a planet in the _____ system.



- 2 Look at the following figure that represents the particles of milk, air and wood:



- a. Figure 1 represents the particles of _____.
- b. Figure 2 represents the particles of _____.
- c. Figure 3 represents the particles of _____.

Describing and Measuring Matter

1 Choose the correct answer:

1. Thermometers can be used to measure the
a. shape **b.** color **c.** temperature **d.** weight
2. All the following are measuring units of volume, except
a. liters **b.** milliliters
c. cubic centimeters **d.** kilograms
3. Roofs are used to protect us from
a. dust and dirt **b.** rain water entering inside
c. animals entering inside **d.** all the previous answers
4. A non-flammable gas that is used to fill balloons is gas.
a. hydrogen **b.** helium **c.** oxygen **d.** water vapor
5. A book length or width can be measured using a
a. ruler **b.** thermometer
c. scale **d.** measuring cup
6. Steel is used in making hammers because it is
a. hard **b.** soft **c.** waterproof **d.** transparent
7. The volume of one liter of water has a mass of
a. one gram **b.** one kilogram **c.** one meter **d.** one kilometer
8. Tropical rainforest home roofs are made up of
a. leaves and sticks **b.** ceramic bricks
c. strong stones **d.** sand
9. Copper is used to make
a. electric wires **b.** cooking pots **c.** windows **d.** a and b
10. 1 kilogram = grams
a. 10 **b.** 100 **c.** 1 **d.** 1,000
11. _____ is a property of matter which is measured by the tape measure.
a. Mass **b.** Length **c.** Volume **d.** Temperature
12. All the following are from the physical properties of matter, except
a. color **b.** shape **c.** ability to burn **d.** temperature

- 13 Which of the following homes have inclined ceramic bricks roofs?
 a. desert homes
 b. cold-weather homes
 c. tropical rainforest homes
 d. desert and tropical rainforest homes
- 14 Gram is the measuring unit of
 a. mass
 b. length
 c. volume
 d. temperature
- 15 Volume is the amount of that matter takes up.
 a. mass
 b. length
 c. space
 d. temperature
- 16 A is used to measure the mass of objects.
 a. ruler
 b. measuring tape
 c. balance
 d. thermometer
- 17 is a property of matter which is measured by the measuring cup.
 a. Mass
 b. Length
 c. Volume
 d. Temperature
- 18 Which of the following are attracted to magnets?
 a. A stone
 b. An iron nail
 c. A piece of wood
 d. A piece of cork
- 19 We use to make gloves.
 a. glass
 b. steel
 c. rubber
 d. copper
- 20 is a transparent material that is used to make eyeglasses and windows.
 a. Glass
 b. Steel
 c. Rubber
 d. Copper
- 21 We use to make the handles of cooking pans.
 a. plastic
 b. wood
 c. copper
 d. plastic and wood

2 Write the scientific term:

- 1 It's the ability of materials to transfer heat and conduct electricity.
- 2 It's a device that is used to measure the volume of liquids.
- 3 It is everything around us that has mass and takes up space.
- 4 They are the properties that can be observed or measured without any change in the matter.
- 5 It's the property of matter which is measured by a thermometer.
- 6 They are materials that are used to build the roofs of desert homes.
- 7 It's a tool that is used to measure the lengths of materials.
- 8 It is the amount of matter in an object.
- 9 It is the amount of space that the matter takes up.

- 10 It's a non-flammable gas that is used to fill balloons and blimps.
- 11 It's matter that is used to make electric wires and cooking pans.
- 12 It's a hard and strong matter that is used to make hammers and screwdrivers.
- 13 It's a transparent and smooth matter that is used to make eyeglasses and windows.
- 14 It's a flexible waterproof matter that is used to make tires and gloves.

3 Put (✓) or (x):

- 1 A measuring cup is used to measure the length of an object. ()
- 2 Color, texture, odor, and shape are considered physical properties. ()
- 3 Glass is used to make tires because it is flexible. ()
- 4 Floating and sinking depend on the object's mass. ()
- 5 When a wooden cube is placed in a glass of water, it will float. ()
- 6 We can observe some physical properties with our five senses. ()
- 7 The length of a book can be measured in liters. ()
- 8 When the shape of a material changes, its mass isn't affected. ()
- 9 We can differentiate between iron and copper by their sight. ()
- 10 Helium is a flammable, poisonous gas. ()
- 11 Copper can be stretched into a thin, flexible wire. ()

4 Correct the underlined words:

- 1 The roof of a desert home is slanted.
- 2 A thermometer is a tool used to measure the mass of materials.
- 3 The roof of a cold-weather home is made up of strong stone.
- 4 A balance is the measuring unit of mass.
- 5 The roof of a tropical rainforest home is made up of ceramic tiles.
- 6 A measuring tape is a tool used to measure the volume of materials.
- 7 Kilogram is a measuring tool of length.
- 8 A paperclip has a mass of about 1,000 g.
- 9 One liter of water has a mass of one gram.
- 10 When particles of matter move quickly, they produce light energy.
- 11 We use steel to make electric wires because it is a good conductor of electricity.
- 12 The handles of cooking pans are made up of copper.

5 Give reasons for:

- 1 It is safe to use helium gas.
- 2 Balloons that are filled with helium gas rise up in the air.
- 3 Copper is used to make cooking pots.
- 4 The roof of a desert home is made of strong stones.
- 5 The roof of a cold-weather home is inclined and is made of ceramic bricks.
- 6 The roof of a tropical rainforest home is made of leaves and sticks.
- 7 Wood and plastic are used in making the handles of cooking pans.
- 8 Copper is used in making electric wires.

6 What happens if:

- 1 The roof of a cold-weather home is flat?
- 2 A piece of paper is burned?
- 3 A magnet is put close to an iron nail and a plastic spoon?
- 4 A piece of cork is put in water?
- 5 An electric wire is made from plastic instead of copper?

7 Choose from column (A) what suits it in column (B):

A

Column (A)

- 1 Steel
- 2 Rubber
- 3 Copper
- 4 Glass

1 _____ 2 _____ 3 _____ 4 _____

Column (B)

- a. is used to make tires.
- b. is used to make cooking pans.
- c. is used to make eyeglasses.
- d. is used to manufacture screwdrivers.

B

Column (A)

- 1 Balance
- 2 Gram - kilogram
- 3 Measuring cup

1 _____ 2 _____ 3 _____

Column (B)

- a. are from the measuring units of mass.
- b. are from the measuring units of volume.
- c. is a tool that is used to measure volume.
- d. is a tool that is used to measure mass.

C

Column (A)

- 1 The roof of a desert home
- 2 The roof of a cold-weather home
- 3 The roof of a tropical rainforest home

Column (B)

- a. is made up of leaves and sticks.
- b. is made up of ceramic bricks.
- c. is made up of strong stones.

8 Complete the following sentences using the words between the brackets:

(1 gm - physical - chemical - 1 kg - Conduction - flat - inclined)

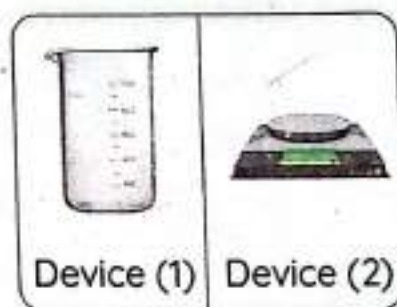
- a. _____ is the ability of the material to transfer heat and conduct electricity.
- b. Odor and shape of matter are considered from the _____ properties of matter.
- c. The ability of rust is from the _____ properties of matter.
- d. The roof of a cold-weather home is _____, while the roof of a desert home is _____.
- e. A paperclip has a mass about _____.

9 Answer the following questions:

- 1 look at the opposite figures, then answer the questions:

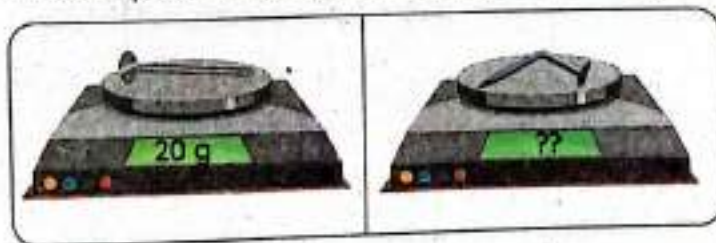
a. Which device is used to measure volume?
(Device 1 - Device 2)

b. We can measure the volume by _____,
and _____ units.



- 2 We have an iron nail with a mass of 20 grams.

If we change its shape, its mass would be _____ grams. (15 - 20 - 35)



- 3 The mass of a big bottle containing 1 liter of water is _____



1 Choose the correct answer:

- 1 _____ changes describe how one matter reacts with another matter.
a. Chemical b. Physical c. Biological d. Break
- 2 _____ changes the matter from a gaseous state to a liquid state.
a. Evaporation b. Boiling c. Condensation d. Freezing
- 3 _____ is considered a chemical change.
a. Cutting vegetables b. Boiling water
c. Baking a cake d. Melting a chocolate
- 4 All the following are examples for chemical changes of the matter except _____.
a. adding baking soda to the batter to bake bread
b. melting iron and reforming it
c. the reaction of water with carbon dioxide inside the leaves
d. burning of a paper
- 5 _____ process is used to separate salt from salt water.
a. Evaporation b. Melting c. Respiration d. Digestion
- 6 When the water is cooled, its particles _____.
a. move slower b. move faster
c. move with the same speed d. do not move
- 7 We can use _____ process to separate sand from sand-water mixture.
a. filtration b. evaporation c. melting d. freezing
- 8 We can turn ice into water by _____.
a. heating b. cooling c. freezing d. rusting
- 9 By decreasing the temperature of water, it _____.
a. condenses b. freezes c. melts d. evaporates

- 10 Producing ash from the burning of wood is considered a _____ change.
a. chemical b. physical c. freezing d. melting
- 11 The change of the temperature affects the _____.
a. shape only b. state only c. color d. a and b
- 12 All the following are chemical changes, except _____.
a. digestion of food b. striking a match
c. adding vinegar to baking soda d. cutting a cloth
- 13 On increasing the temperature of water (heating), it _____.
a. freezes b. melts c. condenses d. evaporates
- 14 _____ is an example of the physical changes.
a. Iron rust b. Rotting of fruits
c. Condensation d. Making bread
- 15 When the water temperature decreases, water changes into _____.
a. ice b. water vapor c. steam d. oxygen
- 16 Which of the following are examples of mixtures?
a. Sand and rock b. Ocean water
c. Atmosphere d. All the previous answers
- 17 When water evaporates, it changes from a _____ state to a _____ state.
a. solid - liquid b. liquid - gaseous
c. gaseous - liquid d. liquid - solid
- 18 The change of matter from a gaseous state to a liquid state is called _____.
a. evaporation b. condensation c. freezing d. melting
- 19 The change of matter from a liquid state to a solid state is called _____.
a. evaporation b. condensation c. freezing d. melting
- 20 When the temperature of ice increases, its particles _____.
a. move slower b. move faster
c. number increases d. number decreases

2 Put (✓) or (X):

- 1 Adding drops of food colors to a cup of water is considered a physical change. ()
- 2 Chunks of milk are considered a physical change. ()
- 3 Condensation and evaporation are reversible processes. ()
- 4 The properties of sugar will change after dissolving it in water. ()
- 5 When the temperature increases, ice melts. ()
- 6 When a liquid matter gains thermal energy, its particles move faster and change into a gaseous state. ()
- 7 Matter changes from one state to another by changing its temperature. ()
- 8 The speed of steam particles is greater than that of ice particles. ()
- 9 The formation of new substances is considered a chemical change. ()
- 10 When we burn a piece of paper, a new substance is formed. ()
- 11 Ocean water is a mixture because it consists of water, dissolved salts, and other materials. ()
- 12 When we decrease the water temperature, it evaporates. ()
- 13 Chemical change is reversible because the substance doesn't change. ()
- 14 Freezing is the change of matter from a solid state to a liquid state. ()
- 15 The total number of particles in the matter doesn't change by changing the state of the matter. ()
- 16 The amount of matter doesn't change when it changes from one state to another. ()
- 17 Water droplets are formed on a glass window because of the condensation process. ()

3 Complete the following sentences using the words between the brackets:

- 1 (physical - oxygen - burning - chemical - Melting)
 - a. Baking bread is a _____ change, while stretching copper into wires is a _____ change.
 - b. _____ of candles is a physical change, while _____ of paper is a chemical change.
 - c. The iron rusts when it reacts with _____.
- 2 (chemical - heat - evaporates - physical)
 - a. When we _____ an ice cream, it melts and becomes liquid.
 - b. Odor and texture are from the _____ properties of matter.
 - c. Iron rust is from the _____ properties of matter.
 - d. Water _____ when it is exposed to a high temperature.

4 Write the scientific term:

- 1 It is the process of removing salts from seawater.
- 2 It is a process by which matter is changed from a solid to a liquid state.
- 3 It is the process by which matter changes from a liquid state to a gaseous state.
- 4 They are changes in matter which are usually reversible and don't affect its structure.
- 5 It is a change in matter with a change in its structure producing a new substance.
- 6 It is the process by which matter changes from a gaseous state to a liquid state.
- 7 It is a temperature at which matter changes from liquid to solid.
- 8 It is anything that takes up space and has mass.
- 9 It's the formation of a flaky reddish layer of iron oxide occurs when iron reacts with oxygen.
- 10 It is a type of energy we get from the Sun and it's used in warming houses and cooking food.

5 Choose from column (A) what suits it in column (B):

Column (A)

- 1 Condensation
- 2 Freezing
- 3 Melting
- 4 Evaporation

Column (B)

- a. is the change of matter from a solid state to a liquid state.
- b. is the change of matter from a gaseous state to a liquid state.
- c. is the change of water from a liquid state to a solid state.
- d. is the change of water from a liquid state to a gaseous state.

1 _____ 2 _____ 3 _____ 4 _____

6 Give reasons for:

- 1 Burning of paper is considered a chemical change.
- 2 The oil takes the shape of the container.
- 3 We can separate salt from water by heating it for a long time.
- 4 Melting and freezing are considered physical changes.
- 5 Ice melts when the temperature increases.
- 6 Fruit salad and salt water are considered mixtures.
- 7 The formation of a bad odor when milk is left out of the fridge for several days.
- 8 Air is considered a mixture.
- 9 Making bread is considered a chemical change.
- 10 The formation of a reddish color layer on the surface of a wet iron after a period of time.

7 What happens if:

- 1 We leave ice out of the freezer?
- 2 We leave a piece of iron exposed to air for a period of time?
- 3 We add baking soda to vinegar?
- 4 We heat salt water for a long time?

8 Correct the underlined words:

- Freezing water changes it into a liquid state.
- Burning wood is considered a physical change.
- A matter changes from a liquid state to a gaseous state by cooling.
- The particles of matter move slower and become further from each other in the evaporation process.
- Vegetable salad is considered a compound.
- Iron is considered a solid, because it has a definite color and shape.
- If the temperature of water increases, it melts and turns into steam.
- When a matter is cooled, its particles move faster.

9 Answer the following questions:

- The opposite figure represents the separation method that is used to separate a mixture of sand and water.

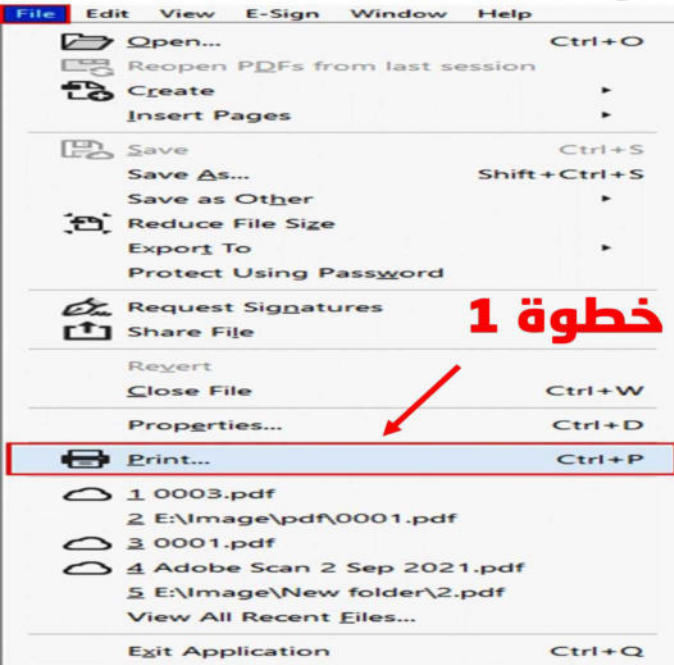


- Use the following words to label the figure
(Sand - Water - Mixture of sand and water)
- This separation process is called
(evaporation - filtration)

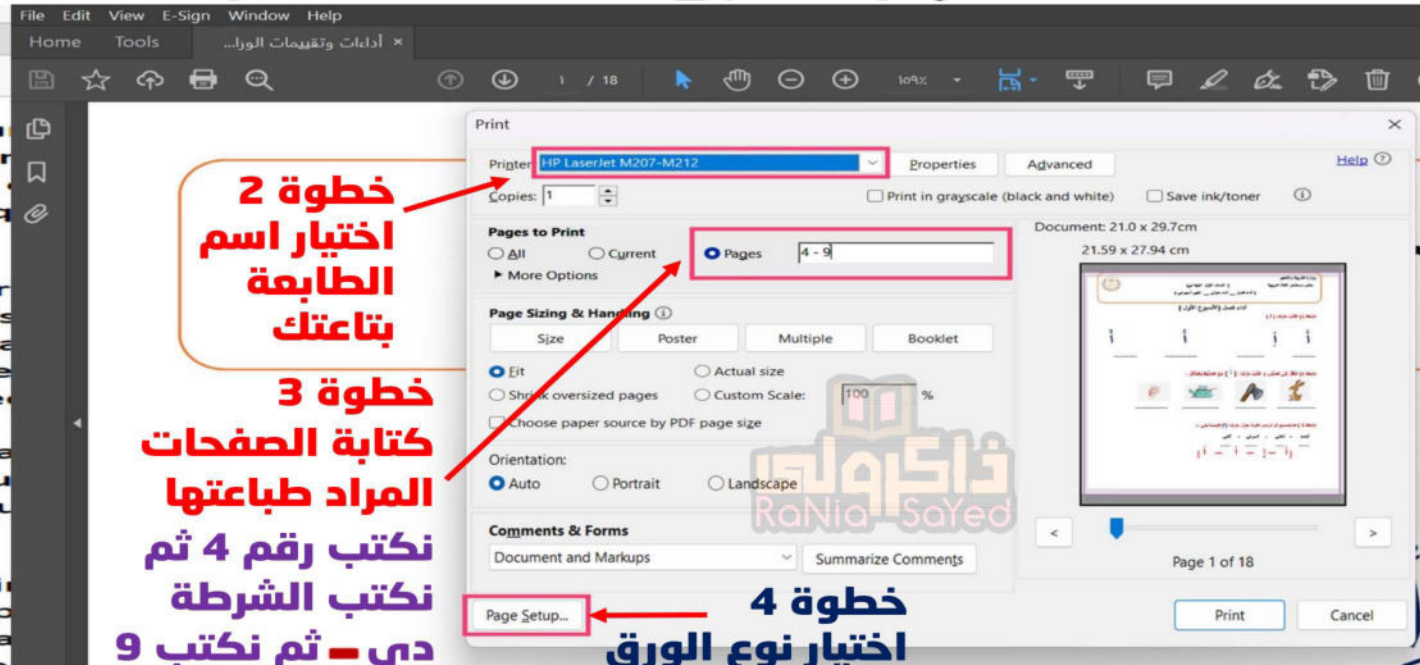
- Classify the following changes into physical or chemical changes:

a.	b.	c.

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



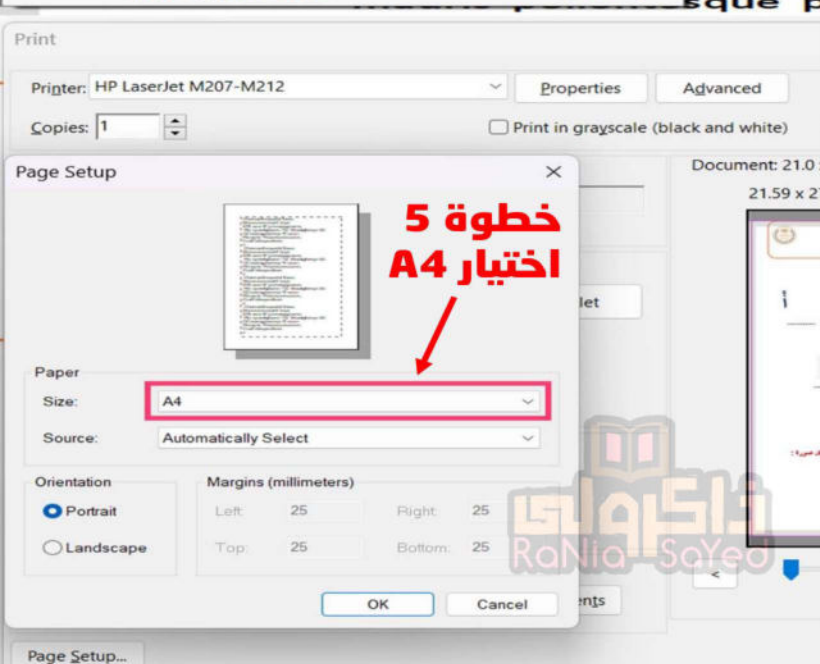
خطوة 1



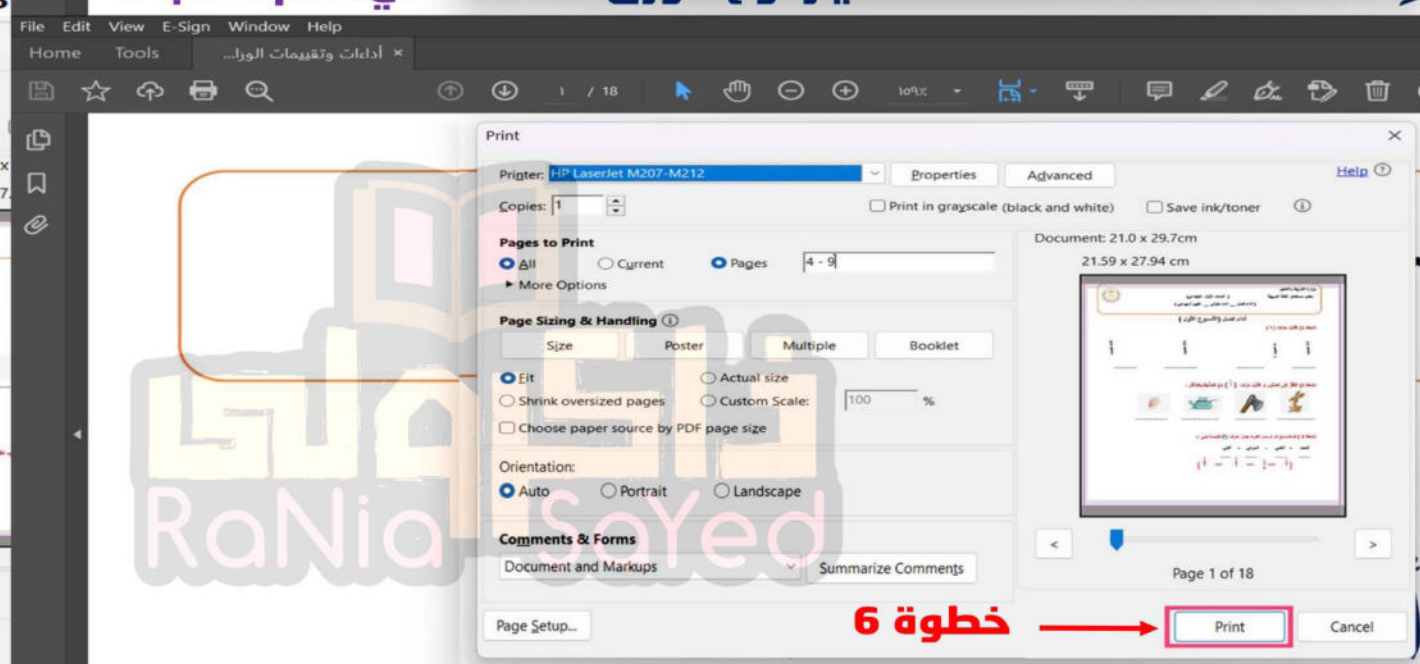
خطوة 2
اختيار اسم
الطابعة
بتاعتك

خطوة 3
كتابة الصفحات
المراد طباعتها
نكتب رقم 4 ثم
نكتب الشرطة
دي - ثم نكتب 9

خطوة 4
اختيار نوع الورق



خطوة 5
اختيار A4



خطوة 6

حمل الآن

مجاناً وحصرياً

المراجعة رقم (2)

الترم الاول





First term Questions Bank



Question 01

Choose the correct answer

- 1 The measuring unit of volume
☐ a cm ☐ b cm^3 ☐ c Kg ☐ d gram
- 2 Particles of are very close to each other.
☐ a glass ☐ b air ☐ c oxygen ☐ d water
- 3 If the amount of grass increases, this directly increases number of
☐ a hawks ☐ b lions ☐ c caracals ☐ d rabbits
- 4 Plants need and that helps them make photosynthesis process.
☐ a sunlight – carbon dioxide ☐ b sunlight – oxygen ☐ c oxygen – nutrients ☐ d oxygen – water
- 5 Oil takes the of its container.
☐ a shape ☐ b colour ☐ c mass ☐ d volume
- 6 Steel is used in making hammers because it is
☐ a flexible ☐ b transparent ☐ c hard ☐ d soft
- 7 Ice can turn into water by
☐ a heating ☐ b rusting ☐ c freezing ☐ d evaporation
- 8 Among examples of physical changes is
☐ a burning of wood ☐ b rusting of iron ☐ c cutting a paper ☐ d Burning of paper
- 9 If all grasses were removed completely from an ecosystem, rabbits in this ecosystem will
☐ a increase ☐ b decrease ☐ c die ☐ d not be affected
- 10 To examine the structure of tiny particles of a matter, we can use
☐ a thermometer ☐ b balance ☐ c ruler ☐ d microscope
- 11 Maple seeds travel by wind, because they are seeds.
☐ a light ☐ b spiny ☐ c heavy ☐ d smooth



- 12 Particles ofare very close to each other.
 (a) milk (b) steam (c) gold (d) oxygen
- 13 Flowers produce for reproduction
 (a) leaves (b) stems (c) seeds (d) roots
- 14 The used material in making the body of cooking pans is
 (a) copper (b) glass (c) wood (d) helium
- 15 To separate sand from water, we can useprocess.
 (a) filtration (b) evaporation (c) melting (d) freezing
- 16 Living organisms that decay dead organisms are called
 (a) producers (b) primary consumers (c) decomposers (d) preys
- 17 Plants use during photosynthesis process.
 (a) nitrogen (b) oxygen (c) carbon dioxide (d) sugar
- 18 Any food chain starts with
 (a) consumer (b) producer (c) fungi (d) decomposer
- 19 To see the components of one blood cell, we need
 (a) electron microscope (b) Scale (c) measuring tape (d) balance
- 20are pores on the surface of plant's leaves that allow gases to move into and out of the plant.
 (a) Stomata (b) Xylem (c) Phloem (d) Hair
- 21 The suitable habitat for microorganisms to survive is
 (a) hot water (b) warm water (c) cold water (d) boiled water
- 22 An example of a gas is
 (a) chocolate (b) rock (c) pencil (d) oxygen
- 23 Food moves from the leaves to the other parts of the plant throughtubes.
 (a) stomata (b) roots (c) phloem (d) xylem
- 24 The final link in any food chain is the
 (a) consumer (b) producer (c) decomposer (d) food web
- 25 The if used to make electrical wires due to its properties.
 (a) glass (b) wood (c) helium (d) copper



- 26 The gas that produced from photosynthesis process is
- a carbon dioxide b oxygen c nitrogen d hydrogen
- 27 The marine food web usually starts with
- a clam b zooplankton c algae d parrotfish
- 28 Burning of fuel in cars is considered as change of matter.
- a chemical b physical c physical and chemical d biological
- 29 Theof the plant absorb water and nutrients from the soil.
- a stems b leaves c flowers d roots
- 30 carry blood that is rich in oxygen and glucose from the heart to the body cells.
- a Veins b Lungs c Arteries d Lungs and veins
- 31 In a food chain the energy transfers from
- a a predator to a prey b a prey to a predator c a predator to a producer d a consumer to a producer
- 32 All the following happen to the particles of oil when it is cooled, except that they
- a move slower b move faster c vibrate less d come close
- 33 The physical property of milk that you can see is the of it.
- a odour b texture c colour d taste
- 34 Decomposers alwaysthe soil.
- a pollute b damage c benefit d harm
- 35 Salt can be separated by of salty water.
- a melting b evaporation c freezing d condensation
- 36 Potato plant has stem.
- a upright b climb c tuber d runner
- 37 If the climate is suitable, the population of a species will
- a increase b decrease c die d not be affected
- 38 A state of matter that has definite shape and definite volume is
- a solid b liquid c gas d all the previous



- 39 When coralthe seawater, they may ingest microplastics.
 (a) evaporate (b) filter (c) cool (d) warm
- 40 All the following factors pollute the water, except
 (a) plastic garbage (b) animals' wastes (c) sunlight (d) human wastes

Question 02

put (true) or (false)

- 1 Metal rusts due to chemical changes that occur to the material. ()
- 2 Coral bleaching has a positive impact on coral reefs. ()
- 3 Cutting wood into pieces changes its mass and colour. ()
- 4 A flower is a reproductive part of the plant. ()
- 5 Stomata allow gases to move into and out of the plant. ()
- 6 Coconut seeds disperse by wind. ()
- 7 The matter can be changed from state to another by changing its temperature ()
- 8 Water pollution doesn't affect food chains in the ecosystem. ()
- 9 If we increase the temperature of ice, it will melt. ()
- 10 Healthy habitats provide living organisms with clean air, healthy food and water. ()
- 11 Human can eat plants and animals. ()
- 12 Gram is the measuring unit of mass. ()
- 13 Plants stems absorb oxygen from the air. ()
- 14 Light and sound are forms of matter. ()
- 15 The first link in any food chain is a consumer. ()
- 16 Iron spoon is attracted to the magnet ()
- 17 Handles of cooking pans are made up of wood or plastic. ()
- 18 The roof of desert home is similar to rainforest home. ()



- 19 Food web shows interaction between many living organisms. ()
- 20 Producers form their own food, while decomposers return nutrients back to the ecosystem. ()
- 21 Rusting of iron is a physical change. ()
- 22 If the masses of two different materials are equal, so their volume must be equal. ()
- 23 Xylem is important for plants to transfer water from roots to leaves. ()
- 24 Coral reefs bleaching occur when temperature of seawater decreases. ()
- 25 There is no interaction between the components of an ecosystem. ()
- 26 Most of the energy in a food web transfers between living organisms when an organism feeds on the other. ()
- 27 Helium takes the shape and the volume of its container ()
- 28 Desalination process contains filtration process only. ()
- 29 Blood moves only in one direction in human's veins or arteries. ()
- 30 Chemical changes as rusting of iron can be reversed easily ()
- 31 Food and oxygen provide the body with the energy needed. ()
- 32 When the matter gains more energy, it can change to different states. ()
- 33 Green plants can grow well in a dark room. ()
- 34 Food chain starts with decomposers. ()
- 35 Liquid particles move faster than solid particles. ()
- 36 If coral reefs are destroyed, many marine food chains will destroy ()
- 37 All matter are made up of tiny particles. ()
- 38 Roots fix the plant in the soil. ()
- 39 Thermometer is used to measure the length of a book ()
- 40 Producers need consumers to live and grow ()



Question 03

complete

- ① We can use gas to fill blimps because it is than air.
- ② Sea cannot differentiate between a jellyfish and a piece of in water
- ③ Veins carry blood that contains from body parts to
- ④ Changing water from solid state to liquid state is called while changing water from gaseous state to liquid state is called
- ⑤ is a gas produced during photosynthesis process.
- ⑥ can eat plants and animals.
- ⑦ Bacteria and fungi are two examples of
- ⑧ An example of liquid is
- ⑨ When ice is melted it changed from state to state.
- ⑩ There are three types of vessels in the human circulatory system which are, and blood capillaries.
- ⑪ Plants produce and during photosynthesis process.
- ⑫ and take the shape of their containers.
- ⑬ is used to determine the volume of an amount of water.
- ⑭ The tubes that carry food from leaves to all plant parts are called
- ⑮ Iron rusting is from the changes of matter.
- ⑯ is from human activity that harm marine ecosystem.
- ⑰ Odor and texture are from properties of matter.
- ⑱ is a healthy natural area includes clean, air, food and water.
- ⑲ Trees and other plants make food through process.
- ⑳ You can separate the mixture of by evaporation.
- ㉑ Flowers are the part of many plants.
- ㉒ In plant's leaves, energy of the Sun changes into energy.



- 23 Water is the matter in state, while water vapour is state.
- 24 We can separate sand from water by process and salt from water by process.
- 25 Travelling by wind and floating on water are from ways of
- 26 The potato stems extend underground and called
- 27 are the producers in the marine food web.
- 28 Mixing baking soda with vinegar is an example of changes.
- 29 Microorganisms are found in water habitats.
- 30 is a copy that is similar to real thing that shows what it looks like or works like.
- 31 Wood on the water.
- 32 From properties of glass is that it is
- 33 When a drought occurs in a lake, it causes in ecosystem.
- 34 The freezing point of water is
- 35 system transports nutrients and oxygen to cells and organs in human

Question 04

write scientific term for each of the following

- 1 It is the number of organisms of one type of species living in an area.
- 2 Process in which matter changes from solid state to liquid state by heating.
- 3 They are consumers which feed on secondary consumers.
- 4 Anything that has a mass and takes up a space.
- 5 The tool used to measure the length of a wall.
- 6 A part of the plant that carries water and nutrients from the roots to the leaves.
- 7 They are changes in matter which don't affect its structure
- 8 The gas that is produced from photosynthesis process.
- 9 They are organisms that break down dead bodies



- 10 The non-poisonous gas that is used in filling balloons.
- 11 Tiny openings on the surface of plant's leaves that allow gases move into and out of the plant.
- 12 The gas that plant needs to make photosynthesis process
- 13 It is the final link in a food chain.
- 14 Flying living organisms that build their nests on the top of mountain cliffs and dive deeply into the sea to eat.
- 15 The process of producing new plants.
- 16 A model of the whole world that is made in the shape of a large ball.
- 17 The animal that is eaten by another animal.
- 18 The liquid substance that plants, animals and human need to survive.
- 19 It is a process of removing salt from water.
- 20 It is a matter that is formed from combine two or more materials chemically.

Question 05

Correct the underline word

- 1 Coral reefs turn completely into green due to rising of water temperature.
- 2 Tree trunks are climb stems.
- 3 There are tiny holes on the stem to allow gases passes into the plant.
- 4 Plant's leaves help it to be fixed in the soil.
- 5 Human can get their food from air and animals
- 6 Oxygen gas is absorbed by plant's leaves to make photosynthesis process.
- 7 Consumers organisms help decompose the remains of dead plants and animals into nutrients that can be returned to the ecosystem.
- 8 Producer organisms need moon light to perform photosynthesis.
- 9 Mixing baking soda with vinegar forms a mixture which has new chemical properties.
- 10 Producing ash from burning of wood is considered as a physical change.



Question 06

give reason

- 1 Iron and wood are solid state of matter.
.....
- 2 Chlorophyll in plant's leaves has an important role in photosynthesis process.
.....
- 3 Photosynthesis process is important for plants to survive.
.....
- 4 Xylem vessels are important for the plant.
.....
- 5 Snakes are secondary consumers.
.....
- 6 Circulatory system has an important role for human to survive.
.....
- 7 Oxygen has no definite shape or volume.
.....
- 8 Producers depend on light energy of the Sun to grow.
.....
- 9 Both melting and freezing processes are physical changes
.....
- 10 Human can use helium gas safely.
.....
- 11 Green plants can make their own food.
.....
- 12 There are stomata in the plant leaves.
.....
- 13 Burdock seeds can stick to animal fur.
.....



14 Human needs to eat some animals and plants.

.....

15 Decomposers have a great importance

.....

16 Ice melt When the temperature increases

.....

17 Air is matter

.....

18 Brick differs from feather. (according to their hardness).

.....

19 It is safe to use helium gas

.....

20 Helium gas used to fill balloons and blimps

.....

Question 07

what happens

1 A plant is placed in a dark place for many days.

.....

2 We put a seed of bean in wet soil for many days

.....

3 The eagles if the grasses were removed from an area.

.....

4 We remove the flowers of a plant.

.....

5 The solid matter particles if it is heated.

.....

6 The coral reefs when the seawater temperature rises

.....



- 7 Plant leaves don't contain chlorophyll.
.....
- 8 The speed of the particles of a liquid if it changes into gas.
.....
- 9 Plants have no stem.
.....
- 10 A magnet is put close to an iron nail and a plastic spoon.
.....
- 11 There is no decomposition process done on the Earth.
.....
- 12 Ultraviolet rays fall on the plastic that present in sea
.....
- 13 When temperature of water contain microorganisms increases
.....
- 14 Bleaching of coral reefs.
.....

Question 08

answer the following

A - Form a food chain by using the following organisms:

- 1 Rat – Grass – Hawk – Snake
.....
- 2 Hawk – Snake – Insect – Grass – Frog
.....
- 3 Coral – Zooplankton – Shark – Algae – Parrotfish
.....



B - Cross the odd word

- ① Wood – Iron – Oxygen – Plastic. ()
- ② Carbon dioxide gas – Sunlight – Water – Oxygen gas. ()
- ③ Oil – Milk – Water – Wood. ()
- ④ Roots – Stems – Leaves – Sunlight. ()
- ⑤ Clam – Zooplankton – Algae – Hawks ()
- ⑥ Pine trees – Apple trees – House flies – Grasses. ()
- ⑦ Mouse – Eagle – Grass – Snake. ()

تم بحمد الله

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم





First term Questions Bank



Question 01

Choose the correct answer

- 1 The measuring unit of volume
 (a) cm (b) cm³ (c) Kg (d) gram
- 2 Particles of are very close to each other.
 (a) glass (b) air (c) oxygen (d) water
- 3 If the amount of grass increases, this directly increases number of
 (a) hawks (b) lions (c) caracals (d) rabbits
- 4 Plants needand that helps them make photosynthesis process.
 (a) sunlight – carbon dioxide (b) sunlight – oxygen (c) oxygen – nutrients (d) oxygen – water
- 5 Oil takes the of its container.
 (a) shape (b) colour (c) mass (d) volume
- 6 Steel is used in making hammers because it is
 (a) flexible (b) transparent (c) hard (d) soft
- 7 Ice can turn into water by
 (a) heating (b) rusting (c) freezing (d) evaporation
- 8 Among examples of physical changes is
 (a) burning of wood (b) rusting of iron (c) cutting a paper (d) Burning of paper
- 9 If all grasses were removed completely from an ecosystem, rabbits will...
 (a) increase (b) decrease (c) die (d) not be affected
- 10 To examine the structure of tiny particles of a matter, we can use
 (a) thermometer (b) balance (c) ruler (d) microscope
- 11 Maple seeds travel by wind, because they areseeds.
 (a) light (b) spiny (c) heavy (d) smooth



- 12 Particles of are very close to each other.
 (a) milk (b) steam (c) gold (d) oxygen
- 13 Flowers produce for reproduction
 (a) leaves (b) stems (c) seeds (d) roots
- 14 The used material in making the body of cooking pans is
 (a) copper (b) glass (c) wood (d) helium
- 15 To separate sand from water, we can useprocess.
 (a) filtration (b) evaporation (c) melting (d) freezing
- 16 Living organisms that decay dead organisms are called
 (a) producers (b) primary consumers (c) decomposers (d) preys
- 17 Plants use during photosynthesis process.
 (a) nitrogen (b) oxygen (c) carbon dioxide (d) sugar
- 18 Any food chain starts with
 (a) consumer (b) producer (c) fungi (d) decomposer
- 19 To see the components of one blood cell, we need
 (a) electron microscope (b) Scale (c) measuring tape (d) balance
- 20are pores on the surface of plant's leaves that allow gases to move into and out of the plant.
 (a) Stomata (b) Xylem (c) Phloem (d) Hair
- 21 The suitable habitat for microorganisms to survive is
 (a) hot water (b) warm water (c) cold water (d) boiled water
- 22 An example of a gas is
 (a) chocolate (b) rock (c) pencil (d) oxygen
- 23 Food moves from the leaves to the other parts of the plant through
 (a) stomata (b) roots (c) phloem (d) xylem
- 24 The final link in any food chain is the
 (a) consumer (b) producer (c) decomposer (d) food web
- 25 The if used to make electrical wires due to its properties.
 (a) glass (b) wood (c) helium (d) copper



- 26 The gas that produced from photosynthesis process is
- (a) carbon dioxide (b) oxygen (c) nitrogen (d) hydrogen
- 27 The marine food web usually starts with
- (a) clam (b) zooplankton (c) algae (d) parrotfish
- 28 Burning of fuel in cars is considered as change of matter.
- (a) chemical (b) physical (c) physical and chemical (d) biological
- 29 Theof the plant absorb water and nutrients from the soil.
- (a) stems (b) leaves (c) flowers (d) roots
- 30 carry blood that is rich in oxygen and glucose from the heart to the body cells.
- (a) Veins (b) Lungs (c) Arteries (d) Lungs and veins
- 31 In a food chain the energy transfers from
- (a) a predator to a prey (b) a prey to a predator (c) a predator to a producer (d) a consumer to a producer
- 32 All the following happen to the particles of oil when it is cooled, except that they
- (a) move slower (b) move faster (c) vibrate less (d) come close
- 33 The physical property of milk that you can see is the of it.
- (a) odour (b) texture (c) colour (d) taste
- 34 Decomposers alwaysthe soil.
- (a) pollute (b) damage (c) benefit (d) harm
- 35 Salt can be separated by of salty water.
- (a) melting (b) evaporation (c) freezing (d) condensation
- 36 Potato plant has stem.
- (a) upright (b) climb (c) tuber (d) runner
- 37 If the climate is suitable, the population of a species will
- (a) increase (b) decrease (c) die (d) not be affected
- 38 A state of matter that has definite shape and definite volume is
- (a) solid (b) liquid (c) gas (d) all the previous



- 39 When coral the seawater, they may ingest microplastics.
 a evaporate b filter c cool d warm
- 40 All the following factors pollute the water, except
 a plastic garbage b animals' wastes c sunlight d human wastes

Question 02

put (true) or (false)

- 1 Metal rusts due to chemical changes that occur to the material. ✓
- 2 Coral bleaching has a positive impact on coral reefs. ✗
- 3 Cutting wood into pieces changes its mass and colour. ✗
- 4 A flower is a reproductive part of the plant. ✓
- 5 Stomata allow gases to move into and out of the plant. ✓
- 6 Coconut seeds disperse by wind. ✗
- 7 The matter can be changed from state to another by changing its temperature. ✓
- 8 Water pollution doesn't affect food chains in the ecosystem. ✗
- 9 If we increase the temperature of ice, it will melt. ✓
- 10 Healthy habitats provide living organisms with clean air, healthy food and water. ✓
- 11 Human can eat plants and animals. ✓
- 12 Gram is the measuring unit of mass. ✓
- 13 Plants stems absorb oxygen from the air. ✗
- 14 Light and sound are forms of matter. ✗
- 15 The first link in any food chain is a consumer. ✗
- 16 Iron spoon is attracted to the magnet. ✓
- 17 Handles of cooking pans are made up of wood or plastic. ✓
- 18 The roof of desert home is similar to rainforest home. ✗
- 19 Food web shows interaction between many living organisms. ✓



- 20 Producers form their own food, while decomposers return nutrients back to the ecosystem. ✓
- 21 Rusting of iron is a physical change. ✗
- 22 If the masses of two different materials are equal, so their volume must be equal. ✗
- 23 Xylem is important for plants to transfer water from roots to leaves. ✓
- 24 Coral reefs bleaching occur when temperature of seawater decreases. ✗
- 25 There is no interaction between the components of an ecosystem. ✗
- 26 Most of the energy in a food web transfers between living organisms when an organism feeds on the other. ✓
- 27 Helium takes the shape and the volume of its container ✓
- 28 Desalination process contains filtration process only. ✗
- 29 Blood moves only in one direction in human's veins. ✓
- 30 Chemical changes as rusting of iron can be reversed easily ✗
- 31 Food and oxygen provide the body with the energy needed. ✓
- 32 When the matter gains more energy, it can change to different states ✓
- 33 Green plants can grow well in a dark room. ✗
- 34 Food chain starts with decomposers. ✗
- 35 Liquid particles move faster than solid particles. ✓
- 36 If coral reefs are destroyed, many marine food chains will destroy ✓
- 37 All matter are made up of tiny particles. ✓
- 38 Roots fix the plant in the soil. ✓
- 39 Thermometer is used to measure the length of a book ✗
- 40 Producers need consumers to live and grow ✗



Question 03

complete

- 1 We can use **helium** gas to fill blimps because it is **lighter** than air.
- 2 **Sea turtle** cannot differentiate between a jellyfish and a piece of **plastic** in the water.
- 3 Veins carry blood that contains **carbon dioxide** from body parts to **heart**
- 4 Changing water from solid state to liquid state is called **melting** while changing water from gaseous state to liquid state is called **condensation**
- 5 **Oxygen** is a gas produced during photosynthesis process.
- 6 **Humans** can eat plants and animals.
- 7 Bacteria and fungi are two examples of **decomposers**
- 8 An example of liquid is **water**
- 9 When ice is melted it changed from **solid** state to **liquid** state.
- 10 There are three types of vessels in the human circulatory system which are **arteries**, **veins** and blood capillaries.
- 11 Plants produce **oxygen** and **sugar** during photosynthesis process.
- 12 **Liquid** and **gas** take the shape of their containers.
- 13 **Graduated cup** is used to determine volume of an amount of water.
- 14 The tubes that carry food from leaves to all plant parts are called **phloem**
- 15 Iron rusting is from the **chemical** changes of matter.
- 16 **Overfishing** is from human activity that harm marine ecosystem.
- 17 Odor and texture are from **physical** properties of matter.
- 18 **ecosystem** is a healthy natural area includes clean, air, food and water.
- 19 Trees and other plants make food through **photosynthesis** process.
- 22 In plant's leaves, **light** energy of the Sun changes into **chemical** energy.
- 23 Water is the matter in **liquid** state, while water vapour is **gas** state.
- 24 We can separate sand from water by **filtration** process and salt from water by **evaporation** process.



- 25 Travelling by wind and floating on water are from ways of **seed dispersal**.
- 26 The potato stems extend underground and called **tubers**.
- 27 **Microorganisms** are the producers in the marine food web.
- 28 Mixing baking soda with vinegar is an example of **chemical** changes.
- 29 Microorganisms are found in **cold** water habitats.
- 30 **Model** is a copy that is similar to real thing that shows what it looks like or works like.
- 31 Wood **floats** on the water.
- 32 From properties of glass is that it is **transparent**
- 33 When a drought occurs in a lake, it causes **imbalance** in ecosystem.
- 34 The freezing point of water is **0°C**.
- 35 The **circulatory** system transports nutrients and oxygen to cells and organs in human.

Question 04

write scientific term for each of the following

- 1 It is the number of organisms of one type of species living in an area. **population**
- 2 Process in which the matter changes from solid state to liquid state by heating. **Melting**
- 3 They are consumers which feed on secondary consumers. **tertiary consumers**
- 4 Anything that has a mass and takes up a space. **matter**
- 5 The tool used to measure the length of a wall. **measuring tape**
- 6 A part of the plant that carries water and nutrients from the roots to the leaves. **The stem**
- 7 They are changes in matter which don't affect its structure **physical changes**
- 8 The gas that is produced from photosynthesis process. **oxygen gas**
- 9 They are organisms that break down dead bodies **Decomposers**
- 10 The non-poisonous gas that is used in filling balloons. **Helium gas**



- 11 Tiny openings on the surface of plant's leaves that allow gases move into and out of the plant.
- 12 The gas that plant needs to make photosynthesis process
- 13 It is the final link in a food chain.
- 14 Flying living organisms that build their nests on the top of mountain cliffs and dive deeply into the sea to eat.
- 15 The process of producing new plants.
- 16 A model of the whole world that is made in the shape of a large ball.
- 17 The animal that is eaten by another animal.
- 18 The liquid substance that plants, animals and human need to survive.
- 19 It is a process of removing salt from water.
- 20 It is a matter that is formed from combine two or more materials chemically.

Stomata
Carbon dioxide gas
Decomposer
Seabirds
Plant's reproduction
Globe
prey
water
Desalination
Compound

Question 05

Correct the underline word

- 1 Coral reefs turn completely into green due to rising of water temperature.
- 2 Tree trunks are climb stems.
- 3 There are tiny holes on the stem to allow gases passes into the plant.
- 4 Plant's leaves help it to be fixed in the soil.
- 5 Human can get their food from air and animals
- 6 Oxygen gas is absorbed by plant's leaves to make photosynthesis process.
- 7 Consumers organisms help decompose the remains of dead plants and animals into nutrients that can be returned to the ecosystem.
- 8 Producer organisms need moon light to perform photosynthesis.
- 9 Mixing baking soda with vinegar forms a mixture which has new chemical properties.
- 10 Producing ash from burning of wood is considered as a physical change.

white
wood
leaves
roots
plants
carbon dioxide
Decomposers
sunlight
compound
chemical



Question 06

give reason

- 1 Iron and wood are solid state of matter.
Because they have definite shape and volume
- 2 Chlorophyll in plant's leaves has an important role in photosynthesis process.
Because chlorophyll absorbs the energy of sunlight that helps in making photosynthesis process
- 3 Photosynthesis process is important for plants to survive.
Because it helps the plant to make its own food
- 4 Xylem vessels are important for the plant.
Because they transport water and nutrients to the plant's leaves
- 5 Snakes are secondary consumers.
Because they eat primary consumers that eat plants
- 6 Circulatory system has an important role for human to survive.
Because it transports oxygen and nutrients through the blood to all the body parts
- 7 Oxygen has no definite shape or volume.
Because it is a gas matter
- 8 Producers depend on light energy of the Sun to grow.
Because they can make their own food through photosynthesis by absorbing the sunlight through their leaves
- 9 Both melting and freezing processes are physical changes
Because in both of them the matter changes without any change in its structure
- 10 Human can use helium gas safely.
Because it is not flammable and not poisonous
- 11 Green plants can make their own food.
Because plant make photosynthesis process
- 12 There are stomata in the plant leaves.
To allow gases to move into and out of the pant
- 13 Burdock seeds can stick to animal fur.
Because burdock seeds have spines



- 14 Human needs to eat some animals and plants.
To get energy
- 15 Decomposers have a great importance
Because they recycle nutrients back into the ecosystem – increase soil fertility
- 16 Ice melt When the temperature increases
particles gain energy and move faster and ice change from solid state to state (water)
- 17 Air is matter
Because it has a mass and volume (take a space)
- 18 Brick differs from feather. (according to their hardness).
Brick is hard – feather is soft
- 19 Helium gas used to fill balloons and blimps
because helium is lighter than air (density of helium less than density of air)

Question 07

what happens

- 1 A plant is placed in a dark place for many days.
The plant can't make photosynthesis process and it will die
- 2 We put a seed of bean in wet soil for many days
It will germinate and grow well
- 3 The eagles if the grasses were removed from an area.
At first eagles would not be affected but when the consumers die the eagles have less food
- 4 We remove the flowers of a plant.
The plant can't reproduce seeds that help it to reproduce
- 5 The solid matter particles if it is heated.
The particles of solid matter move, vibrate and spin around faster
- 6 The coral reefs when the seawater temperature rises
They get rid of algae from their tissues causing coral bleaching
Plant leaves don't contain chlorophyll.
- 7 **The plant can't absorb the energy from sunlight and can't make photosynthesis process**



- 8 The speed of the particles of a liquid if it changes into gas.
The speed of particles will increase
- 9 Plants have no stem.
Water and nutrients will not move up from the roots to the leaves
- 10 A magnet is put close to an iron nail and a plastic spoon.
The magnet attracts iron nail only
- 11 There is no decomposition process done on the Earth.
Dead bodies will not be decomposed
- nutrients will not return back to the soil
- 12 Ultraviolet rays fall on the plastic that present in sea
microplastic will be formed
- 13 When temperature of water contain microorganisms increases
microorganisms and fish that feed on it will move away to a cooler water
- 14 Bleaching of coral reefs.
coral color turn to white and it will die

Question 08

answer the following

A - Form a food chain by using the following organisms:

- 1 Rat – Grass – Hawk – Snake
Grass → Rat → Snake → Hawk
- 2 Hawk – Snake – Insect – Grass – Frog
Grass → Insect → Frog → Snake → Hawk
- 3 Coral – Zooplankton – Shark – Algae – Parrotfish
Algae → Zooplankton → Coral → Parrotfish → Shark



B - Cross the odd word

- ① Wood – Iron – Oxygen – Plastic.
- ② Carbon dioxide gas – Sunlight – Water – Oxygen gas.
- ③ Oil – Milk – Water – Wood.
- ④ Roots – Stems – Leaves – Sunlight.
- ⑤ Clam – Zooplankton – Algae – Hawks
- ⑥ Pine trees – Apple trees – House flies – Grasses.
- ⑦ Mouse – Eagle – Grass – Snake.

Oxygen

Oxygen gas

Wood

Sunlight

Hawks

House flies

Grass

تم بحمد الله

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم



حمل الآن

مجاناً وحصرياً

المراجعة رقم (3)

الترم الاول



Concept (1-1)-Plant Needs

-Plants Basic needs: Water, air, sunlight and nutrients.

-Soil is not considered as a basic need for the plant (G.R.)? because some plants only grow in the water or grow on other plants instead of having roots in the soil.

-The seeds can grow without soil, if they have water and sun.

-Plants can grow without soil for a while, but finally they need soil.

Photosynthesis process: it is the process through which plants use the energy in sunlight to make their own food

In photosynthesis, carbon dioxide to combine with water to produce:

Oxygen: which is released in air to help living organisms breathe.

Sugar: which gives the plant the energy if needs growth.

-Light is important to plant growth (Basic Need)? (G.R.), because plants use light to make their own food.

Plant Parts	
Plant Part	Function
Leaves	- <u>contain</u> chlorophyll which gives them the green color. - <u>make</u> food for the plant through photosynthesis process. - <u>need</u> water, carbon dioxide gas and sunlight to make food.
Stem	- <u>Transports</u> water and nutrients from roots to the rest of plant. <u>Support</u> leave and flowers of the plant.
Root	- <u>Fix</u> the plant in the soil. - <u>Absorb</u> water and nutrients from the soil.

-Plant roots have hair like feature called root hairs (G.R), to increase the amount of absorbed water and nutrients that the plant needs.



-There are many forms of stems:

Wood Stem	Upright	Climb	Tubers	Runners
Tree trunk and shrubs	Flowers	Grabs	Potato plant	Strawberry

-Chlorophyll: absorbs energy from the sunlight to allows carbon dioxide to combine with water to make food for the plant.

Stomata: They are pores on the surface of plant's leaves that allow gasses to move into and out of the plant.

Photosynthesis process

Plant Part	Green Leaves (contains chlorophyll)
Mechanism	<p>-Leaves absorb light energy from the sun.</p> <p>-Stomata allow carbon dioxide to enter leave.</p> <p>-Root absorb water and nutrients from soil.</p> <p>- Xylem carry water and nutrients from root to the leaves.</p> <p>-Phloem carry food materials from leaves to all plant parts.</p>
Reaction	<u>Carbon dioxide</u> combine with <u>water</u> in the presence of light energy.
Products	<u>Oxygen:</u> That animals and human need to breath.
	<u>Sugar:</u> That the plant needs to get energy.

P.O.C	Plants	Human
Get the energy needed	Make their own food through photosynthesis.	<p><u>Must eat food to get energy:</u></p> <p>-Digestive system digests food into glucose and nutrients</p> <p>-These nutrients absorbed into the blood.</p>
Get the gases needed	Stomata in the leaves	<p>-The nose and mouth then to lungs.</p> <p>-Oxygen is absorbed and transfer to the blood.</p>

Human Circulatory system

Human Circulatory System

Heart	<p>-<u>Consist</u> of four chambers two atria and two ventricles.</p> <p>-<u>Pumps</u> blood to all the body parts.</p> <p>-<u>Receives</u> the blood again from body parts.</p>	
Arteries	Carry blood rich in oxygen and nutrients, from the heart to the body cell.	
Veins	<p>-Carry blood rich in carbon dioxide and very small amount of nutrients and oxygen from body cells back to the heart.</p> <p>-Then to the, lung to carry oxygen again.</p>	
Blood capillaries	Tiny blood vessels connect arteries with veins.	

Plant transport system

Plant transport system

Xylem	Tubes transport water and nutrients upward from <u>roots</u> to the <u>leaves</u>	
Phloem	Tubes transport produced glucose sugar from <u>leaves</u> to all <u>parts of the plant</u> .	

<u>P.O. C</u>	Plant transport system	Human circulatory system
<u>Similarities</u>	-Both have systems of vessels to transport water, nutrients and gases. -Both have one-way vessels.	
<u>Differences</u>	- System of tubes called xylem and.	-System of vessels called veins, arteries and blood capillaries.
	- Xylem carry water and nutrients from the roots to the leaves.	- Arteries carry blood rich in oxygen and nutrients from the heart to all body parts.
	- Phloem carry sugars from leaves to all plant parts.	- Veins carry blood that contain carbon dioxide and is low in nutrients and oxygen from all body parts to the heart.

-During photosynthesis process, light energy (sunlight) converted into chemical energy (glucose).

Flowers: They are the reproductive parts of many plants.

Plant reproduction: It is the process of making new plants.

Ways of seed dispersal in nature

1-Water	float on water	Coconut seeds
2-Wind	Light seeds	Maple seeds Dandelion seed
3-Animals or human transport	stick to animal fur or human clothes	Burr seeds (have spines)
4-Seeds that are eaten by animals	eaten and come out with the animals' stool in another place.	Tomato seeds Apple seed



Concept (1-2)-Energy Flow in Ecosystem

Ecosystem: It is an area (or community) that contains living organisms and non-living organism's things that interact with each other.

-It provide all living organisms with food, water and shelter.

-How does energy flow through an ecosystem?

Energy flows through an ecosystem from plants to animals, between animals when they eat each other, then when living organisms die, their energy is returned to the soil.

Hawks in ecosystem

-It eat different types of small ground animals.

-Hawks do not eat plants.

-There are few predators that can attack hawks.

-When hawks die, it decomposes and its energy is returned to the soil.

-Animals eat plants or other animals (G.R), because they need energy.



Food is energy

-There is a relation between sunlight and the energy we get from our food (G.R), because the energy we get from food is originally comes from the sun.

Plants	Animals
-Make their own food through photosynthesis process.	-Cannot make their own food. -Get energy from eating other living organisms (plants and animals).

-All living organisms eat food (G.R) to get the energy they need to survive.

-Living organism can be classified into three groups according to their way of feeding.



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Producers

-They are organisms that can make their own food.

Consumers

-They are organisms that eat other living organisms to get their needed energy, because they cannot make their own food.

Primary Consumer	Secondary Consumer	Tertiary Consumer
Animals eat plants	Animals eat primary consumers	Animals eat secondary consumers
e.g. Insects	e.g. Birds	e.g. Meat eating animals

Decomposers

-They are organisms that carry out the process of decomposition by breaking down or decaying dead organisms.

e.g. Worms and millipedes: eat dead matter and produce waste which is rich in nutrients that increase the soil fertility for plant growth.

Food chain

It is a model that shows one linear set of feeding relationships and movement of energy between living organism.

Food web

It is a model that shows many different feeding relationships among living organisms.

-First link of food chain is the producer (plant) living organisms.

-Second link of the food chain is the primary consumer living organism.

Prey: any animal that is hunted and eaten by another animal.

Predator: any consumer that hunts and eats another animal.

-It is better to use a food web to show interactions among living organisms than a food chain (G.R.)? because a food web shows interactions among many food chains so, the food web contains many organisms, while a food chain shows interactions between just few organisms.



Dr. Becky Barak

- She is a plant-community ecologist.
- She studied a class in restoration ecology which means "Rebuilding habitats that are damaged."



Concept (1-3)-Changes in Food Web

-Human activities affect the marine habitats through:

- 1-Water pollution affects the food webs.
- 2-Overfishing affects the food webs when humans catch many fish.

-Protection of marine environment in Palau island:

- 1-Control human activities on land to keep the protected marine environment from pollution by avoiding throwing waste materials into the ocean.
- 2-Fishermen must not overfish the coral reefs to conserve the marine.

-When and ecosystem changes, food webs change too:

What would happen if ?	Result	Reason
1-If there is a gentle rain in the desert.	the desert ecosystem may be improved	-Because the rainwater will feed plants which will feed living organisms.
2-If there is a heavy rain in the desert.	the desert ecosystem may be harmed	-Because the water of heavy rain will cause flooding which will destroy the ecosystem.
3-If there is a drought and all the grasses died.	the food web in ecosystem maybe destroyed	-Because the plants will die and also the organisms will die.
4-If there are many top predators in the food web.	the other organisms in the food web may be harmed	-Because the top predators will eat all the organisms.

Population: It is the number of organisms of one type of species living in an area



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-Any increase or decrease in one species affect the population of other species (G.R.), because all species depend on other species for survival.

Microorganisms:

- Tiny organisms cannot be seen by naked eye.
- Make their own food (producers).
- Live in cold water habitat.



-Seabirds:

- Build their nests on the top of mountain cliffs.
- Feed on small fish found nears surface of the water.

What will happen to microorganisms, if the climate change and water become warmer?

- 1-Microorganisms will move to an area where the water is cooler.
- 2-The small fish will also move to a new habitat.
- 3-Seabirds will move to a new habitat while others will die.

Climate change cause population change	
Suitable change	Unsuitable change
Population <u>increases</u>	Population <u>decreases</u>

-Healthy habitats are important to all organisms in a food web (G.R.), because they provide organisms with resources that they need to survive as: air, food, water and shelter

Habitat Loss

-Coral reefs

- 1-Provide food and shelter fish and other marine organisms.
- 2-important for tourism.



-Coral reefs bleaching

When the water is very warm:

- 1-The coral reefs get rid of the algae living in their tissues.
- 2- This causes the coral reefs turn completely into white.
- 3-As a result of coral reefs bleaching, corals often do not survive.



Destroying food web due to coral reefs bleaching causes:

- Fish and other marine organisms may die or move to another habitat.
- People will be negatively affected.

Plastic Pollution

-The effect of plastic products on marine life:

- When the amount of plastic increases in the sea, the number of marine organism's decrease.

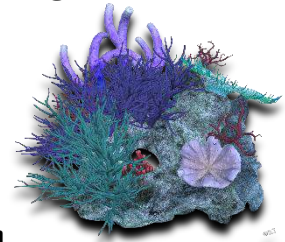
How do sea turtles get harmed by feeding on plastic?

- Sea turtle cannot differentiate between jellyfish and a piece of plastic in the water. Therefore, sea turtle eats a lot of plastic thinking that it is a jellyfish, so sea turtle gets harmed.



How do coral reefs get harmed by feeding on plastic?

- When the coral reefs filter the seawater to get their food, they ingest these micro-plastics that are as small as the pieces of food that coral reefs get from the water, so coral reefs get harmed.



Habitat restoration: It is the process of returning a habitat back to its nature before harm was done

The importance of habitat restoration projects:

- Help to prevent species from extinction
- Rebuilding coral reefs through coral reef rehabilitation project.

Nursery: is an area in the sea, where scientists take care of small pieces of coral until they grow up and can be moved back to the reefs where they were dying.

- Protecting coral reefs from plastic pollution through Zero Plastic.
- In Egypt, coastal communities use a new way of life known as Zero Plastic, where people decrease using of one-use plastic products.



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Concept (2-1)-Matter in the World Around us

Matter: It is anything that has a mass and takes up space (volume).

States of matter: Solid – Liquid – gas.

Properties of matter include: Color, volume, temperature, shape and hardness.

States of matter

State	Solid	Liquid	Gas
Shape	Definite	Indefinite	Indefinite
Volume	Definite	Definite	Indefinite
Particles	-Very close together -Held together -Cannot slide over each other	-Have more space. -Held together. -Can slide over each other.	-A lot of spaces -Not held together. -Spread out to fill any container.
Energy	Less energy	More energy	A lot of energy
Motion	A little bit	Move more freely	Very freely
			

Properties of particles of matters:

- They are tiny bodies that we cannot see with our eyes.
- They are (the building unit of matter).
- Different matters have different particles.
- All particles in any state of matter are in continuous motion.



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Measuring and observing matter:

Tool	Property	Unit
Length	Ruler or measuring tape	Meter
Mass	Balance	Kg - gm
Temperature	Thermometer	Thermometer
Volume	Measuring Cup	Liter – ml - cm ³

Modeling the particles of matter

-We can use ping pong balls to describe the movement of particles of the three states of matter (G.R.), because they are three dimensional unites and can be separated from each other.

How can we see tiny particles?

-Electron microscope help us to see tine particles e.g. one blood cell.

-Normal microscope helps us to see very small particles.

Models

Model: It is a copy that is similar to a real

-Importance of Models (G.R.)?

- Teach something about real things they copy.
- See and understand who things work.
- Learn about many things at just the right size.
- Know what we could not otherwise see.



How models help us look at big things?

Globe: It is the model of Earth that shows us:

- 1-Shape of Earth.
- 2-How much Earth is covered with water.
- 3-Where different countries located.



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The solar system: It is a very big place that consists of sun and many planets.

Model of solar system helps us:

- 1-See all planets at once.
- 2-Compare between planets.



How do models help us look at small things?

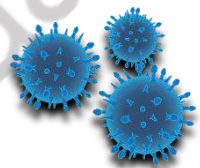
Model of germs help us:

- 1-See the shape of germ.
- 2-See different parts of germs.

Models help us understand how things work.

A model of a volcano shows us:

- 1-Shape of the volcano.
- 2-How the liquid that comes out of a volcano during eruption.



A model of an airplane shows us how airplane flies up into the air.

Modeling States of Matter

State	Arrangement of particles
Model of solid	Regular pattern (organized)
Model of liquid	Random arrangement (Not well organized)
Model of gas	Random arrangement (Not well organized)



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Concept (2-2)-Describing and Measuring Matter

How is matter described and measured?

- Matter can be described by its color, shape, texture or size.
- Matter can be described by using its state (solid-liquid-gas).
- Some properties of matter can be measured by using some tools.

A roof for every type of climate

The kind of material used to make a roof depends on the climate where the home is located.

	Material of roof	Properties of roof material
Desert home	Strong Stones	-It is flat. -It protects the home from dust and dirt.
Cold weather home	Ceramic Tiles	-It is inclined. -It protects home from rains.
Tropical rainforest home	Leaves and sticks	-It is inclined. -It protects the home from animals getting inside.

Properties of Matter

Physical Properties

- Can be observed by five senses.
- Such as color, odor, shape and texture.



Chemical Properties

- Can be observed and measured by the changes happen to the material when it interacts with other materials.

1-The ability to burn:

Such as paper interaction with fire forming ash.



2-The ability to rust:

Such as iron interaction with water and air forming rust



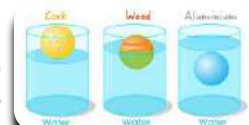
Volume	Mass
The amount of space that the matter takes up.	The measure of the amount of matter.
<u>Measuring unit:</u> -Liters (L) -Milliliters (ml) -Centimeter cubic (cm ³)	<u>Measuring unit:</u> -Gram (g) -Kilogram (kg)
1 L=1000 ml = 1000 cm ³	1 kg = 1000 g
One liter of water has a mass of 1 Kilogram	

Temperature: It is the measure of how quickly the particles in a matter are moving.

-Quickly moving particles produce more heat energy than slower moving particles.



Measuring Property



<u>Attracted or not attracted</u>		<u>Floating or sinking</u>	
<u>Attracted</u>	<u>Not attracted</u>	<u>Floating</u>	<u>Sinking</u>
Iron Nail	Wood – Cork -Stone	Wood - Cork	Iron nail - stone

-Floating and sinking of substances does not depend on its mass.

-Ice is lighter than water, so it floats on water surface.

Does the shape and size effect the mass of material?

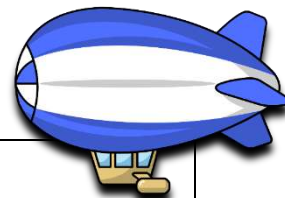
-Changing the shape of matter doesn't affect its mass.

-Changing the size of matter change its mass.





Useful Properties of Matter

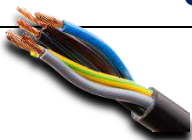


Helium

Physical Properties	Chemical Properties
-It is light gas which means that it is lighter than air.	-It is not poisonous. -It is not flammable.
So, it is used to fill balloons.	So, it is used in fill blimps

Copper

Physical properties	-Can be shaped into thin and flexible wires. -Good conductor of electricity. -Good conductor of heat.
Uses	
<u>-Making electrical wire.</u>	<u>-Making cooking pans.</u>



-Electric wires are made of copper (G.R.)?

Because it is a good conductor of heat and can be stretched into thin flexible wires.

-Wood and plastic are used in making handles of cooking pans(G.R.)?

Because they are bad conductors of heat.

Uses of Matter

Matter	Steel	Glass	Rubber
Uses	Screwdrivers- Hammers	Window-light bulb- eyeglasses	Tires-Gloves- Athletic shoes
Property	Strong and hard	Transparent and smooth	Waterproof and flexible



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Concept (2-3)-Comparing Changes in Matter

What happened to the mass of a matter when it is heated, cooled or mixed with other substances?



-The mass of any matter does not change when it is heated, cooled or mixed with other matter.

Melting: It is a process in which a matter is changed from a solid state to the liquid state when its temperature increases by heating.

-**Light energy** is like thermal energy, as when particles of a matter absorb them, particles **move, vibrate and spin** faster.

Temperature and State of Matter

-The temperature measures how much energy the particles in a substance have.

Melting	Freezing
Solid particles gain energy.	Liquid particles lose energy.
Particles move more faster .	Particles move slower .
Particles temperature increase .	Particles temperature decreases .
The matter changes from solid state to liquid state.	The matter changes from liquid state to solid state.
	

-**Melting** of ice and **freezing** of water are examples of physical change.

Physical change: It is a change in matter without any change in its structure.



-Physical changes are usually reversible such as melting and freezing



Water Freezing Point 0°C

It is the temperature at which water changes from **liquid** state to **solid** state.

Water Boiling Point 100°C

It is the temperature at which water changes from **liquid** state to **gas** state.

Water is found in liquid states between (0°C - 100°C)

Freezing and Melting

Freezing: It is the process in which matter changes from **liquid** state to **solid**.



Melting: It is the process matter the the matter changes from **solid** to **liquid**.



P.O.C	Freezing By <u>Cooling</u>	Melting By <u>heating</u>
Process (Heating or cooling)		
Particle Energy (Gain or lose)	Particles of liquid <u>lose</u> thermal energy.	Particles of solid <u>gain</u> thermal energy
Particle Speed (Faster or slower)	move <u>Slower</u>	move <u>faster</u>
Particle Motion (Separated or get closer)	get <u>closer</u> to each other	<u>separate</u> from each other
State Change	Matter change from liquid state to <u>solid</u> state.	Matter change from <u>solid</u> state to <u>liquid</u> state.
Diagram		



-Freezing process causes decrease in the speed of particles of matter (G.R),
because in freezing process the particles of matter lose thermal energy, so
the particles move slower.

-Melting process cause increase in the speed of particle of matter (G.R)

Because in melting process, the particles of matter gain thermal energy, so
particles move faster.

Condensation and Evaporation

Condensation: It is the process in
Which the matter changes from the
gas state to the liquid state.



Evaporation: It is the process in
which matter changes from the
liquid state to the gas stat.



P.O.C	Condensation	Evaporation
Process (Heating or cooling)	By <u>cooling</u>	By <u>heating</u>
Particle Energy (Gain or lose)	Particle of gas <u>lose</u> thermal energy	Particle of liquid <u>gain</u> thermal energy
Particle Speed (Faster or slower)	Move <u>slower</u>	Move <u>faster</u>
Particle Motion (Separated or get closer)	Get <u>closer</u> together	<u>Separate</u> from each other
State Change	The matter change from <u>gas</u> state to <u>liquid</u> state	The matter changes from <u>liquid</u> state to <u>gas</u> state.
Diagram		



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-Water vapor differ from steam:

-Water vapor is **invisible**.

-When hot water vapor hits cooler air, it condenses into tiny water droplets forming visible steam.



Mixtures



Mixtures and compounds:

Mixtures	Compound
Matter formed of two or more materials	
Materials in the mixture do not combine chemically	Materials in the compound combine chemically.
Mixing does not change its components into new product	Produce new substances.

Mixtures can be made of:

-Solid materials:

e.g. sand and rock mixture. (*components can be seen by eyes*)

-Solid and liquid material e.g. salty water.

Gas materials: e.g. air. (*components cannot be seen by eyes*)

Properties of mixtures:

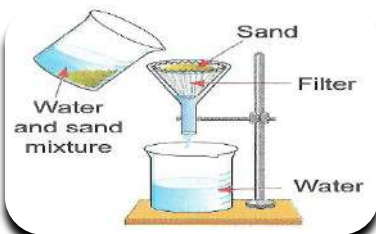
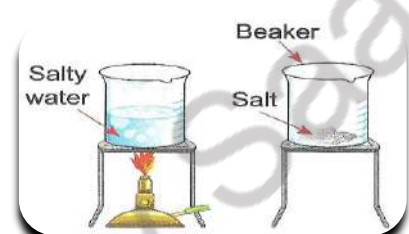
- It consists of **two or more** materials.
- Components of mixture **do not combine** chemically.
- Each material in the mixture **keep** its properties.
- Components of mixture **can be separated** after mixing.



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Methods to separate component of mixtures





1-Filtration	2-Evaporation
one material in the mixture has smaller particles than the particles of the other materials.	If materials evaporate at different temperatures.
Ex. Separation of a mixture of water and sand.	Ex. Separation of salt from a mixture of salty water.
	

Mixing it up with Mass

<u>When forming a mixture:</u>	<u>When forming a compound:</u>
The masses of substances before mixing are equal to the masses of these substances after mixing	
properties don't change	properties change .

Evidences Describes **Physical** Change

Change in shape and size:

Cutting a paper	Cutting a fruit	Coiling a straight piece of wire to form a spring	The flow of sand in an hourglass changes the shape of sand in the container
			



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Expected change in color:

- Adding drops of food color to a cup of water.
- Coloring paper.



Change in state of matter:

- Melting of a piece of chocolate.
- Evaporation of water.



Evidences Describes Chemical Change

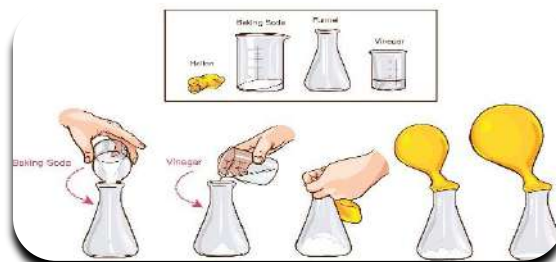
Unexpected color change:

- When mixing iodine with corn starch, a new substance formed and its color is dark blue.



Formation of gas bubbles:

- When mixing baking soda with vinegar, gas bubbles appear.



Formation of strong odor:

- Leaving cup of milk out of the fridge for about two days can produce bad smell.



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Physical change Vs Chemical change

Physical change	Chemical change
It is the change in matter <u>without</u> any change in its structure.	It is the change matter with a <u>change</u> in its structure.
<u>Do not</u> produce new substance	Produce <u>new substance</u> .
Change shape, size or state	<u>New substance</u> is different physically and chemically from the original substances.
Reversible	Irreversible
<u>Ex.</u> - <u>Cutting</u> paper into small pieces. - <u>Making</u> Salad. - <u>Melting</u> wax-ice-butter	<u>Ex.</u> - <u>Iron reaction</u> with oxygen and water forming rust. (<i>iron oxide</i>) - <u>Oxygen combine</u> with carbon and hydrogen to release heat and start fire. (<i>change substance to ash</i>) - <u>Vinegar combine</u> with baking soda, forming gas bubbles. - <u>Digestion</u> of food inside your body (<i>chemicals produced in your body help in food digestion</i>)

Plenty of water, but none to drink

-Although about 70% of the surface of the Earth is covered by oceans, many people cannot reach fresh water.

-Water of oceans and seas are not suitable for drinking as it is a mixture of water, salt and other minerals.



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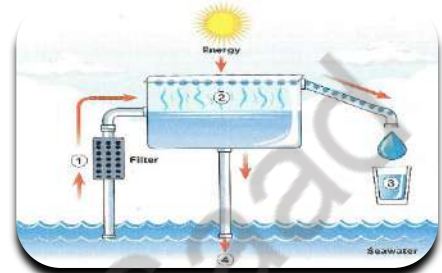
Desalination: It is the process of removing salt from water.

How do we separate fresh- drinkable water from the mixture of ocean's water?

1-Filtration

- It removes large materials such as seaweeds, shells and fish.

-Water, salts, minerals and gases would pass through filter.



Water still undrinkable

2-Evaporation

-Water vapor rises up leaving salts and other minerals.

-Boiling and filtered water.



Water still undrinkable

3-By cooling the water vapor, it is turned into water.

Water is safe to drink

4-The remainder water that contains large amount of salt is pumped back to the oceans after desalination process.

Problems of desalination

1-Requires a lot of energy.

2-Very expensive process.

3-Lead to environmental problems **such as:**

-Small marine organisms can be hurt due to sucking of water into the desalination plants.



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-The water that contains a very large amount of salts that is pumped back to oceans after desalination, can be dangerous to the marine life.

-Drinking salt water makes the human body dehydrates faster which means that human body loses water faster.

-Egypt has over 80 desalination plants.

(اللهم إني أستودعك ما قرأت وما
حفظت وما تعلمت فرددّه عند حاجتي إليه
إنك على كل شيء قدير)



حمل الآن

مجاناً وحصرياً

المراجعة رقم (4)

الترم الاول



G5 Final Revision on unit 1

Choose the correct answer:

- 1- Both plants and humans need to survive.
a) Shelter b) air c) carbon dioxide gas d) soil
- 2- Green plants and animals are similar in
a) size b) structure c) growing d) moving
- 3- All the following structures exist in green plants, except
a) Stems b) fruits c) blood d) leaves
- 4- Plants can make their own food through the process.
a) respiration b) digestion c) photosynthesis d) thinking
- 5- Green plants can absorb nutrients from the
a) Water b) soil c) air d) food
- 6- Without, plants can't grow well and will die.
a) Sugar b) soil c) oxygen gas d) sunlight
- 7- and are from the plant needs that help it make photosynthesis.
a) Oxygen - water b) Sunlight - carbon dioxide
c) Water - earth worms d) Nutrients - oxygen
- 8- Green plants produce all the following substances during photosynthesis process, except
a) oxygen gas b) carbon dioxide gas c) fat d) glucose
- 9- The plant placed in a dark room for a week will have.....
a) green leaves b) long stem c) strong roots d) few leaves
- 10- Manufacturing of the plant food take place inside theof the plant.
a) Stems b) fruits c) roots d) leaves
- 11- Carbon dioxide gas enters the plant leaf through the
a) Chlorophyll b) stomata c) stem d) xylem
- 12- Photosynthesis process requires all the following, except
a) water b) sunlight c) oxygen gas d) carbon dioxide

- 13- absorbs the sunlight during photosynthesis process.
 a) Chlorophyll b) stomata c) stem d) xylem
- 14- The plant produces through photosynthesis process that gives it the needed energy to grow.
 a) oxygen gas b) water c) carbon dioxide gas d) sugar
- 15- The kind of stems that extend underground are called
 a) climb stem b) tubers c) runners d) wood stems
- 16- plant has climb stem.
 a) Potato b) Tomato c) Vine d) Pine
- 17- The human circulatory system includes all the following structures, except the
 a) Heart b) Veins c) arteries d) Lungs
- 18- Food materials (glucose sugar) are transported from the leaves to other parts of the plant through
 a) xylem b) phloem c) roots d) stems
- 19- Blood rich in carbon dioxide gas return back to the heart through
 a) arteries b) veins c) lungs d) xylem
- 20- system in plants consists of tubes that water and nutrients move through it.
 a) digestive b) Respiratory c) Transport d) Nervous
- 21- The system in human that moves blood in the human body is called system.
 a) digestive b) Respiratory c) circulatory d) Nervous
- 22- help the plant's leaves to get water and nutrients from the soil.
 a) Roots only b) Xylem only
 c) Roots and xylem d) Xylem and stomata
- 23- Plants can produce new seeds by
 a) stem b) leaves c) flowers d) roots
- 24- The movement of seeds from a place to another is called
 a) seeds germination b) seeds dispersal
 c) seeds reproduction d) seeds growth

- 25- All the following can help in seed dispersal, except
- a) wind
 - b) human and animals
 - c) water
 - d) soil and sunlight
- 26- From the ways of seed dispersal is floating on water as in
- a) tomato seeds
 - b) coconut seeds
 - c) maple seeds
 - d) burr seeds
- 27- Seeds have spines, so they can
- a) float on water
 - b) travel by wind
 - c) stick to animal fur
 - d) be eaten by animals
- 28- Which of the following living organisms can make their own food?
- a) animals
 - b) humans
 - c) plants
 - d) all the previous
- 29- All the following are ecosystems, except
- a) desert
 - b) tundra
 - c) rainforest
 - d) space
- 30- Hawks get their energy by eating
- a) plants only
 - b) animals only
 - c) nonliving things
 - d) plants and animals
- 31- Plants are from that get their energy from the sun to produce their food.
- a) decomposers
 - b) consumers
 - c) producers
 - d) nonliving things
- 32- Caracals obtain their energy by eating
- a) shark
 - b) grass
 - c) mice
 - d) butterfly
- 33- All the following living organisms can't make their own food except
- a) hawk
 - b) pine tree
 - c) mice
 - d) butterfly
- 34- Fox feed on rabbit, so fox is considered as
- a) producers
 - b) preys
 - c) predators
 - d) decomposers
- 35- Living organisms that cannot make their own food are
- a) producers
 - b) consumers
 - c) decomposers
 - d) b and c
- 36- All the following are types of food for primary consumers, except
- a) grasses
 - b) seeds
 - c) fruits
 - d) eagles
- 37- Secondary consumers can eat only
- a) producers
 - b) primary consumers
 - c) decomposers
 - d) tertiary consumers

38- Lion is from

- a) producers b) grass eaters c) top predators d) decomposers

39- The predator in a food web usually eats more than one type of

- a) producers b) consumers c) decomposers d) plants

40- The energy can flow directly from

- a) a Grass to an eagle b) an ant to an eagle
c) a snake to an eagle d) an eagle to a snake

41- considered as consumer living organisms.

- a) Humans b) Plants c) Animals d) a and c

42- All the following from decomposers, except

- a) bacteria b) fungi c) worms d) snake

43- All the following organisms are consumers, except

- a) deers b) lion c) rabbits d) millipedes

44- The process which happens to all dead organisms is known as

- a) photosynthesis b) decomposition c) breathing d) reproduction

45- A hawk depends indirectly on

- a) grasses b) snakes c) foxes d) eagles

46- what is the correct order of a food chain?

- a) Plant → Hawk → Snake → Mouse.
b) Plant → Mouse → Hawk → Snake.
c) Plant → Mouse → Snake → Hawk.
d) Hawk → Snake → Mouse → Plant.

47- Waste materials produced from millipedes and worms are rich in

- a) water b) nutrients c) oxygen gas d) carbon dioxide gas

48- We need more energy during

- a) sleeping b) listening to music c) watching T.V. d) physical exercises

49- If a rabbit dies in the desert, its body will

- a) grow b) stay c) decompose d) freeze

50- Rabbits eat all the following, except

- a) grasses b) carrots c) seeds d) insects

- 51- If all grasses were removed completely from an ecosystem, rabbits in this ecosystem will
- a) increase b) decrease c) die d) not be affected
- 52- If there are no predators in an ecosystem. the other consumers will.....
- a) increase b) decrease c) die d) not be affected
- 53- If there is no primary consumers in an ecosystem, the producers will.....
- a) increase b) decrease c) die d) not be affected
- 54- All the following factors pollute the water, except
- a) sunlight b) animals wastes c) human wastes d) plastic garbage.
- 55- If the amount of grasses increases in an ecosystem, this directly increases the number of
- a) caracals b) hawks c) rabbits d) lions.
- 56- All the following are top predators, except
- a) hawks b) tigers c) butterfly fish d) lions.
- 57- When there is a gentle rain in a desert ecosystem, this ecosystem may be.....
- a) harmed b) improved c) destroyed d) collapsed.
- 58- Ecosystem can be effected by
- a) climate changes b) pollution c) human activities d) all the previous
- 59- The marine food web usually started with
- a) clam b) algae c) zooplankton d) parrotfish.
- 60- On extreme hot climate, the water of a lake
- a) increases due to evaporation. b) decreases due to evaporation.
c) change into ice. d) has a lower temperature.
- 61- If the climate change is suitable, the population of a species will
- a) increases b) decreases c) die d) not change
- 62- In a food chain, the energy transfer from
- a) a predator to a prey b) a prey to a predator
c) a predator to a producer d) a consumer to a producer.
- 63- Healthy marine environment is important for survival of
- a) humans b) lions c) fish d) deers.

- 75- All the following processes show coral reefs in healthy conditions, except**
- a) growing b) bleaching c) reproducing d) filtration
- 76- Habitat restoration projects allow scientists to that occur to an ecosystem.**
- a) increase harms b) decrease harms
c) keep harms d) increase damages
- 77- The place in which we can take care of small pieces of coral until they grow up is located in**
- a) seas b) air c) deserts d) forests.
- 78- To reduce pollution, we have to replace white plastic forks with**
- a) wooden forks b) black plastic forks
c) yellow plastic forks d) green plastic forks.
- 79- "Zero plastics" project that is applied in Egyptian coastal communities, means that the using of plastic products decreases by**
- a) 0% b) 10% c) 90% d) 100%

Complete the following sentences:

- 1- Different plants have three main common structures which are, stem, and
- 2- Plant food is a kind of sugar called that provides it with the needed for growth.
- 3- Humans and other animals need to eat to get
- 4- Plants need gas and they produce gas through the photosynthesis process.
- 5- The stem carries water and nutrients from the to the of the plant.
- 6- Soil is the source of and which the plant need to make its own food.
- 7- Some plants can grow without
- 8- Transport system in the plant consists of two types of vessels which are and

- 9- Water and nutrients move up the plant's stem through vessels known as
- 10- transports food from the leaves to all plant parts.
- 11- Human circulatory system consists ofand
- 12- Heart in human circulatory system consists of chambers which are two and two
- 13- There are three types of blood vessels in the human circulatory system which are, and blood capillaries.
- 14- Inside the leaves of the plant, sunlight allows to combine with during photosynthesis process.
- 15- Apple trees have stem.
- 16- Shrubs have stems, while most flowers have stems.
- 17- Pine tree has leaves look like
- 18- Animals and humans need gas to breathe.
- 19- In plant's leaves, light energy from the is converted into energy during photosynthesis.
- 20- is the primary source of energy for all living organisms on the Earth.
- 21- Human and animals get energy from
- 22- Nearly all of the producers on the Earth are
- 23- consumers are animals that eat plants.
- 24- shows interactions between many living organisms.
- 25- Humans and other animals need to eat to get
- 26- Producers get energy from the to produce their own
- 27- Consumer can eat or may eat another consumer.
- 28- Any food chain starts with and ends with
- 29- Living organisms include producers, and
- 30- The interconnected food chains are known as
- 31- The nutrients that resulted from decomposition and returned to the ecosystem can be used directly by
- 32- Humans can eat producers and consumers.

- 33- The organisms that break down the remains of dead plants and animals into nutrients that return to the ecosystem are called
- 34- is the interconnected food chains that show many different feeding relationships.
- 35- Scientists who work on restoration projects to have healthy habitat for plants to survive are called
- 36- Throwing plastic garbage and waste materials into a river cause water
- 37- Heavy rain causes which destroys desert ecosystems.
- 38- Seabirds eat that swim near the water surface.
- 39- Removing plants in ecosystem negatively impacts consumers.
- 40- are producers that small fish feed on to get energy.
- 41- When the marine habitats are destroyed, the number of living organisms in their food webs is
- 42- UV rays coming from the, break down plastic wastes into small pieces called
- 43- Habitat loss is not only decrease marine population but also it is one of the main causes of

Write the scientific term:

- 1- The living organisms that can make their own food.
- 2- The vital process that takes place in green plant to make them survive.
- 3- A liquid substance that plants, animals and human need to survive.
- 4- The source of energy that the plant uses to make photosynthesis.
- 5- A part of the plant that supports its leaves and flowers.
- 6- The part of the plant that absorbs water and nutrients from the soil.
- 7- The part of the plant that is responsible for fixing the plant in the soil.
- 8- Features in the plant's roots that help the plant to get more water and nutrients.
- 9- The part of the plant that is responsible for making its food.
- 10- The stems that are extended above and along the ground.

- 11- Tiny openings in the plants leaves that allow gases to get into and out of the plant.
- 12- Vessels carry glucose from the plant's leaf to all the plant parts.
- 13- It pumps the blood to all body parts and receives it again.
- 14- Vessels that carry the blood rich in oxygen from heart to all body cells.
- 15- Tiny blood vessels that connect arteries to veins.
- 16- Parts of the plant responsible for reproduction.
- 17- The process of producing new plants.
- 18- A community that contains living organisms and nonliving things.
- 19- Living organisms that both humans and animals need to survive.
- 20-The area that provides food, water and shelter to all living organisms which live in it.
- 21-It is a model that shows one linear set of feeding relationships and energy flow between living organisms.
- 22- They are consumers which feed on secondary consumers.
- 23- The animal that is eaten by another animal.
- 24- The consumer that hunts and eats another animal.
- 25- A group of living organisms that can live on decaying organisms.
- 26- Organisms that represent the final link in the food chain.
- 27- It is a process through which decomposers can recycle nutrients back into the soil.
- 28- It is the harms that happen to air, water and soil due to human activities.
- 29- A human activity that leads to decreasing the number of fish and affecting many marine food webs.

30- It transfers between animals in a food web, to help them do their activities and survive.

31- The number of organisms of one type of species lives in an area.

32- Increase or decrease in the number of organisms.

33- They are organisms that are too small for people to see with only their eyes.

34- It is a condition in which coral reefs turn completely into white.

35- A process of returning a habitat back to its natural state before harm was done.

36- It is an area in the sea, where scientists take care of small pieces of coral until they grow up.

Put (√) or (×):

1- Plants, like human and animals, need oxygen gas only. ()

2- Plants and humans need water and air to live. ()

3- All plants need soil for growth of the seeds. ()

4- Plants and animals are similar in the way of getting their food. ()

5- Many plants need soil for growth the seeds, some don't. ()

6- All plants have roots, stems and leaves. ()

7- Each part of the plant has its own function. ()

8- Plants need water and air only to grow. ()

9- Stem of the plant absorbs water from the soil. ()

10- Plant's stem has hairs that absorb oxygen gas from the air. ()

11- Plants use the energy of the sunlight to make their own food. ()

12- Photosynthesis process takes place in the plant root. ()

13- Green plant can grow in a dark room. ()

14- Roots of plants collect sunlight and carbon dioxide gas from air. ()

15- Water and carbon dioxide are absorbed by plant's root to help the plant to grow. ()

- 16- Light is important for plants growth. ()
- 17- A tree trunk is a type of stems called runners. ()
- 18- Flowers have a kind of stems called upright stems. ()
- 19- At the beginning of germinating some bean seeds, they can grow without soil or sunlight. ()
- 20- The plant grows in the soil lower than on the paper towel. ()
- 21- Xylems are smaller tubes that connect the stem to the leaf. ()
- 22- Chlorophyll is responsible for the green color of the plant. ()
- 23- Human circulatory system consists of the heart and the lungs. ()
- 24- Arteries are vessels in human circulatory system that carry blood rich in carbon dioxide gas. ()
- 25- Oxygen gas enters the human body through the two lungs. ()
- 26- Blood moves in the human body in one direction. ()
- 27- The reproductive parts of many plants are flowers. ()
- 28- Plant's seeds are formed inside the flowers. ()
- 29- There is only one way of seeds dispersal in nature. ()
- 30- Human could be one of the ways of seed dispersal. ()
- 31- There are some activities that don't need energy like listening to music.()
- 32- Birds eat insects as a prey to get their energy. ()
- 33- There is only one type of ecosystem on the Earth. ()
- 34- There is no interaction between the components of an ecosystem. ()
- 35- Hawks, crocodiles and sharks are top predators. ()
- 36- Producers don't need consumers to survive. ()
- 37- In the decomposition process, the role of decomposers comes before the role of scavengers. ()
- 38- Hawk can get directly its needed energy by eating beetles. ()
- 39- Birds are secondary consumers because they eat insects that feed on plant. ()
- 40- Predators of living organisms may be a prey for other living organisms.()
- 41- Food web made up of two food chains or more. ()
- 42- Dead organisms don't need energy. ()
- 43- In a food chain, the energy transfers from eagles to mice. ()

- 44- There are some consumers that can eat both plants and animals. ()
- 45- Nutrients that present in living organisms bodies returned to the ecosystem after death. ()
- 46- The suitable ecosystem for plant community ecologists to do their researches is natural area. ()
- 47- Consumers and decomposers can get energy directly from the sun. ()
- 48- Recycling of plastic wastes reduces pollution. ()
- 49- If there is a heavy rain in a desert ecosystem, it will be harmed. ()
- 50- If producers were removed from an ecosystem, the consumers will need to move away. ()
- 51- Food webs don't change if their surrounding environments get changed. ()
- 52- What is happening on land doesn't affect what is happening in marine ecosystem. ()
- 53- A desert food chain doesn't contain any type of fish or sharks. ()
- 54- Overfishing is one of the human activities that affect the marine ecosystem. ()
- 55- It is better to recycle the waste materials than throwing them in rivers and seas. ()
- 56- Zooplanktons can make their own food by photosynthesis process. ()
- 57- In a marine food web, there are many top predators like sea star and sea urchin. ()
- 58- Healthy habitats provide living organisms with clean air, healthy food, water and shelter. ()
- 59- Forest fire negatively affects the marine organisms. ()
- 60- Pollution affects both of food resources and animal habitats. ()
- 61- The flow of energy in food webs is not affected when the natural habitats are destroyed. ()
- 62- Both of jellyfish and sea turtle are consumers. ()
- 63- When the temperature of seawater decreases, coral reefs receive more algae. ()
- 64- Coral bleaching occurs as a result of throwing plastic in seawater. ()

- 65- Living organisms in seas and oceans cannot differentiate between real food and plastic waste materials. ()
- 66- Jellyfish can get its energy by eating the sea turtle. ()
- 67- If coral reefs are destroyed, many marine food chains will be destroyed. ()
- 68- Coral reefs depend on butterfly fish for food and shelter. ()
- 69- Coral reefs are considered as a suitable habitat for sharks. ()
- 70- It is better to keep natural resources healthy than applying restoration projects. ()
- 71- People near the coastal areas must replace cloth bags with plastic one. ()

Correct the underlined words:

- 1- Respiration process helps the plant to make its own food.
- 2- Oxygen gas is absorbed by plants' leaves to make photosynthesis process.
- 3- When a plant is placed in sunlight, its leaves become pale green.
- 4- When the plant seed begins to grow and makes sprouts this process is called reproduction.
- 5- Human can get their food from air and animals.
- 6- Each of xylem in plants and veins in human are two-ways vessels.
- 7- Veins carry blood rich in oxygen and nutrients.
- 8- Human circulatory system consists of the lungs and blood vessels.
- 9- Many insects are considered as secondary consumers.
- 10- Decomposers are living organisms that depend on other living organisms in their food.
- 11- The first link in any food chain is a consumer.
- 12- It is better for any predator to depend on many species of decomposers to get its energy and survive.
- 13- The predator is the consumer eaten by another consumer.

14- Sheep feed on grass, so it considered as a tertiary consumers.

15- Decomposers always harm the soil.

16- Recycling nutrients back to the ecosystem is the main function of the consumers.

17- The polluted water has a positive effect on coral reefs.

18- Top predators are decomposers that present at the top of food chains.

19- Due to rising of water temperature, coral reefs turn completely into green.

20- Microorganisms are small pieces of plastics in the size of rice grains and they cause harms to marine organisms.

Choose from column (B) what suits it in column (A)

1)

(A)	(B)
1-Sunlight	a)is absorbed by the roots of the plant.
2- Soil	b) is necessary for plants to survive and grow.
3-Water	c)is not a basic need for plant growth.
4-carbon dioxide	d) a gas which is produced during photosynthesis.
5- Oxygen	e)a gas which is the plant uses during photosynthesis.

1	2	3	4	5
.....

2)

Column A	Column B
1- Chlorophyll	a. Transport nutrients and water to the plant's leaf.
2- Phloem	b. Allowing air to enter the leaf
3- Stomata	c. Absorbing the sunlight of the sun.
4-Xylem	d. Absorb nutrients from the soil.
5-Root hairs	e. Transport food from the plant's leaf

1	2	3	4	5
.....

3)

(A)	(B)
1) Coconut seeds	a) sticking to animal fur.
2) Maple seeds and dandelion seeds	b) floating on water.
3) Burr seeds	c) being eaten by animals.
4) Tomato seeds and apple seeds	d) traveling by wind.

1	2	3	4
.....

Cross out the odd words:

- 1- Carbon dioxide gas — Water — Oxygen gas — Sunlight.
- 2- Roots — Stem — Leaves — Sunlight.
- 3- Green plant — Shelter — Water — Sunlight.
- 4- Heart – veins – xylem – arteries.
- 5- Plant – xylem – phloem – blood.
- 6- Producers – consumers – non-living organisms – decomposers.
- 7- Sunlight – consumers – glucose – photosynthesis process.
- 8- Fungi – snakes – millipedes – bacteria.
- 9- Lion – sharks – tigers – foxes.
- 10- Rabbit – sheep – bacteria – goat.
- 11- Eagle – hawk – rabbit – crocodile.
- 12- Pine tree – grasses – houseflies – apple tree.
- 13- Clam – sea urchin – zooplankton – algae.

Give reasons for:

1- Photosynthesis process is important for plants to survive.

➤

2- There is no life on Earth in the absence of plants.

➤

3- Roots have important role in photosynthesis process of plants.

➤

4- Stomata are present on plant's leaves.

➤

5- Green plants can make their own food.

➤

6- Chlorophyll in plant's leaves has an important role in photosynthesis process.

➤

7- Circulatory system has an important role for human to survive.

➤

8- Flowers are important parts for the plant.

➤

9- Xylem in plant is a one-way vessel. (Xylem is important in plants)

➤

10- Seeds of maple or dandelion plants can disperse through wind easily.

➤

11- Burdock seed can stick to animal fur.

➤

12- Sunlight is important for all living organisms.

➤

13- Human needs to eat some animals and plants.

➤

14- All the food chains begin with the producers.

➤

15- All the food chains depend on sunlight.

➤

16- Consumers depend on producers to get their energy.

➤

17- Soil fertility depends on decomposers.

➤

18- When the number of one species of consumers in an ecosystem increases, they will die.

➤

19- Food webs can be destroyed due to pollution.

➤

20- Death of algae may leads to moving sharks away to another place.

➤

21- Plastics are very harmful to marine organisms.

➤

22- Coral bleaching happens when the water temperature rises.

➤

23- Both of rising water temperature and ingesting microplastics are harmful for coral reefs.

➤

What happens if.:

1- Plants can't get carbon dioxide gas from air.

➤

2- We put a green plant in a dark room for many days.

➤

3- We put a seed of bean in a wet soil for many days.

➤

4- The plant stops making photosynthesis process for several days.

➤

5- Plants can't produce glucose sugar during photosynthesis process.

➤

6- We remove the flowers of a plant.

➤

7- A hawk is place in an ecosystem contain plants only.

➤

8- There is no sunlight reaches the Earth's surface.

➤

9- All types of decomposers are absent from an ecosystem.

(There is no decomposition process done on the Earth).

➤

10- All primary consumers disappear from a certain food chain.

➤

11- The number of secondary consumers in an ecosystem decreases.

➤

12- The climate change is unsuitable for a population of one type of species.

➤

13- The seawater in which coral reefs live becomes very warm.

➤

Answer the following questions:

1- What are the main parts of plant?

➤

2- What are the basic needs for plant?

➤

3- Mention three ways of seed dispersal.

➤

4- Form a food chain by using the following living organisms :

a) (Lion – Grasses – Deer)

➤ → →

b) (grass – rat – hawk – snake)

➤ → → →

c) (small fish – seabirds – bacteria – microorganisms)

➤ → → →

d) (clam – sea star – algae – shark)

➤ → → →

e) (parrotfish – algae – coral reefs – shark)

➤ → → →

5- Mention how we can decrease the using of plastic products?

➤

➤

➤

G5 Final Revision on unit 1 (answered)

Choose the correct answer:

- 1- Both plants and humans need to survive.
a) Shelter b) air c) carbon dioxide gas d) soil
- 2- Green plants and animals are similar in
a) size b) structure c) growing d) moving
- 3- All the following structures exist in green plants, except
a) Stems b) fruits c) blood d) leaves
- 4- Plants can make their own food through the process.
a) respiration b) digestion c) photosynthesis d) thinking
- 5- Green plants can absorb nutrients from the
a) Water b) soil c) air d) food
- 6- Without, plants can't grow well and will die.
a) Sugar b) soil c) oxygen gas d) sunlight
- 7- and are from the plant needs that help it make photosynthesis.
a) Oxygen - water b) Sunlight - carbon dioxide
c) Water - earth worms d) Nutrients - oxygen
- 8- Green plants produce all the following substances during photosynthesis process, except
a) oxygen gas b) carbon dioxide gas c) fat d) glucose
- 9- The plant placed in a dark room for a week will have.....
a) green leaves b) long stem c) strong roots d) few leaves
- 10- Manufacturing of the plant food take place inside theof the plant.
a) Stems b) fruits c) roots d) leaves
- 11- Carbon dioxide gas enters the plant leaf through the
a) Chlorophyll b) stomata c) stem d) xylem
- 12- Photosynthesis process requires all the following, except
a) water b) sunlight c) oxygen gas d) carbon dioxide

- 13- absorbs the sunlight during photosynthesis process.
 a) Chlorophyll b) stomata c) stem d) xylem
- 14- The plant produces through photosynthesis process that gives it the needed energy to grow.
 a) oxygen gas b) water c) carbon dioxide gas d) sugar
- 15- The kind of stems that extend underground are called
 a) climb stem b) tubers c) runners d) wood stems
- 16- plant has climb stem.
 a) Potato b) Tomato c) Vine d) Pine
- 17- The human circulatory system includes all the following structures, except the
 a) Heart b) Veins c) arteries d) Lungs
- 18- Food materials (glucose sugar) are transported from the leaves to other parts of the plant through
 a) xylem b) phloem c) roots d) stems
- 19- Blood rich in carbon dioxide gas return back to the heart through
 a) arteries b) veins c) lungs d) xylem
- 20- system in plants consists of tubes that water and nutrients move through it.
 a) digestive b) Respiratory c) Transport d) Nervous
- 21- The system in human that moves blood in the human body is called system.
 a) digestive b) Respiratory c) circulatory d) Nervous
- 22- help the plant's leaves to get water and nutrients from the soil.
 a) Roots only b) Xylem only
 c) Roots and xylem d) Xylem and stomata
- 23- Plants can produce new seeds by
 a) stem b) leaves c) flowers d) roots
- 24- The movement of seeds from a place to another is called
 a) seeds germination b) seeds dispersal
 c) seeds reproduction d) seeds growth

- 25- All the following can help in seed dispersal, except
- a) wind
 - b) human and animals
 - c) water
 - d) soil and sunlight
- 26- From the ways of seed dispersal is floating on water as in
- a) tomato seeds
 - b) coconut seeds
 - c) maple seeds
 - d) burr seeds
- 27- Seeds have spines, so they can
- a) float on water
 - b) travel by wind
 - c) stick to animal fur
 - d) be eaten by animals
- 28- Which of the following living organisms can make their own food?
- a) animals
 - b) humans
 - c) plants
 - d) all the previous
- 29- All the following are ecosystems, except
- a) desert
 - b) tundra
 - c) rainforest
 - d) space
- 30- Hawks get their energy by eating
- a) plants only
 - b) animals only
 - c) nonliving things
 - d) plants and animals
- 31- Plants are from that get their energy from the sun to produce their food.
- a) decomposers
 - b) consumers
 - c) producers
 - d) nonliving things
- 32- Caracals obtain their energy by eating
- a) shark
 - b) grass
 - c) mice
 - d) butterfly
- 33- All the following living organisms can't make their own food except
- a) hawk
 - b) pine tree
 - c) mice
 - d) butterfly
- 34- Fox feed on rabbit, so fox is considered as
- a) producers
 - b) preys
 - c) predators
 - d) decomposers
- 35- Living organisms that cannot make their own food are
- a) producers
 - b) consumers
 - c) decomposers
 - d) b and c
- 36- All the following are types of food for primary consumers, except
- a) grasses
 - b) seeds
 - c) fruits
 - d) eagles
- 37- Secondary consumers can eat only
- a) producers
 - b) primary consumers
 - c) decomposers
 - d) tertiary consumers

38- Lion is from

- a) producers b) grass eaters c) top predators d) decomposers

39- The predator in a food web usually eats more than one type of

- a) producers b) consumers c) decomposers d) plants

40- The energy can flow directly from

- a) a Grass to an eagle b) an ant to an eagle
c) a snake to an eagle d) an eagle to a snake

41- considered as consumer living organisms.

- a) Humans b) Plants c) Animals d) a and c

42- All the following from decomposers, except

- a) bacteria b) fungi c) worms d) snake

43- All the following organisms are consumers, except

- a) deers b) lion c) rabbits d) millipedes

44- The process which happens to all dead organisms is known as

- a) photosynthesis b) decomposition c) breathing d) reproduction

45- A hawk depends indirectly on

- a) grasses b) snakes c) foxes d) eagles

46- what is the correct order of a food chain?

- a) Plant → Hawk → Snake → Mouse.
b) Plant → Mouse → Hawk → Snake.
c) Plant → Mouse → Snake → Hawk.
d) Hawk → Snake → Mouse → Plant.

47- Waste materials produced from millipedes and worms are rich in

- a) water b) nutrients c) oxygen gas d) carbon dioxide gas

48- We need more energy during

- a) sleeping b) listening to music c) watching T.V. d) physical exercises

49- If a rabbit dies in the desert, its body will

- a) grow b) stay c) decompose d) freeze

50- Rabbits eat all the following, except

- a) grasses b) carrots c) seeds d) insects

- 51- If all grasses were removed completely from an ecosystem, rabbits in this ecosystem will
- a) increase b) decrease c) die d) not be affected
- 52- If there are no predators in an ecosystem. the other consumers will.....
- a) increase b) decrease c) die d) not be affected
- 53- If there is no primary consumers in an ecosystem, the producers will.....
- a) increase b) decrease c) die d) not be affected
- 54- All the following factors pollute the water, except
- a) sunlight b) animals wastes c) human wastes d) plastic garbage.
- 55- If the amount of grasses increases in an ecosystem, this directly increases the number of
- a) caracals b) hawks c) rabbits d) lions.
- 56- All the following are top predators, except
- a) hawks b) tigers c) butterfly fish d) lions.
- 57- When there is a gentle rain in a desert ecosystem, this ecosystem may be.....
- a) harmed b) improved c) destroyed d) collapsed.
- 58- Ecosystem can be effected by
- a) climate changes b) pollution c) human activities d) all the previous
- 59- The marine food web usually started with
- a) clam b) algae c) zooplankton d) parrotfish.
- 60- On extreme hot climate, the water of a lake
- a) increases due to evaporation. b) decreases due to evaporation.
c) change into ice. d) has a lower temperature.
- 61- If the climate change is suitable, the population of a species will
- a) increases b) decreases c) die d) not change
- 62- In a food chain, the energy transfer from
- a) a predator to a prey b) a prey to a predator
c) a predator to a producer d) a consumer to a producer.
- 63- Healthy marine environment is important for survival of
- a) humans b) lions c) fish d) deers.

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- 75- All the following processes show coral reefs in healthy conditions, except
a) growing b) bleaching c) reproducing d) filtration
- 76- Habitat restoration projects allow scientists to that occur to an ecosystem.
a) increase harms b) decrease harms
c) keep harms d) increase damages
- 77- The place in which we can take care of small pieces of coral until they grow up is located in
a) seas b) air c) deserts d) forests.
- 78- To reduce pollution, we have to replace white plastic forks with
a) wooden forks b) black plastic forks
c) yellow plastic forks d) green plastic forks.
- 79- "Zero plastics" project that is applied in Egyptian coastal communities, means that the using of plastic products decreases by
a) 0% b) 10% c) 90% d) 100%

Complete the following sentences:

- 1- Different plants have three main common structures which are roots, stem, and leaves.
- 2- Plant food is a kind of sugar called glucose that provides it with the energy needed for growth.
- 3- Humans and other animals need to eat to get energy.
- 4- Plants need carbon dioxide gas and they produce oxygen gas through the photosynthesis process.
- 5- The stem carries water and nutrients from the roots to the leaves of the plant.
- 6- Soil is the source of water and nutrients which the plant need to make its own food.
- 7- Some plants can grow without soil.
- 8- Transport system in the plant consists of two types of vessels which are xylem and phloem.

- 9- Water and nutrients move up the plant's stem through vessels known as xylem.
- 10- Phloem transports food from the leaves to all plant parts.
- 11- Human circulatory system consists of heart and blood vessels.
- 12- Heart in human circulatory system consists of four chambers which are two atria and two ventricles.
- 13- There are three types of blood vessels in the human circulatory system which are arteries, veins and blood capillaries.
- 14- Inside the leaves of the plant, sunlight allows carbon dioxide to combine with water during photosynthesis process.
- 15- Apple trees have wood stem.
- 16- Shrubs have wood stems, while most flowers have upright stems.
- 17- Pine tree has narrow leaves look like needles.
- 18- Animals and humans need oxygen gas to breathe.
- 19- In plant's leaves, light energy from the sun is converted into chemical energy during photosynthesis.
- 20- Sun is the primary source of energy for all living organisms on the Earth.
- 21- Human and animals get energy from food.
- 22- Nearly all of the producers on the Earth are plants.
- 23- Primary consumers are animals that eat plants.
- 24- Food web shows interactions between many living organisms.
- 25- Humans and other animals need to eat to get energy.
- 26- Producers get energy from the sun to produce their own food.
- 27- Consumer can eat plants or may eat another consumer.
- 28- Any food chain starts with plants (producers) and ends with decomposers.
- 29- Living organisms include producers, consumers and decomposers.
- 30- The interconnected food chains are known as food web.
- 31- The nutrients that resulted from decomposition and returned to the ecosystem can be used directly by plants (producers).
- 32- Humans can eat producers and primary consumers.
- 33- The organisms that break down the remains of dead plants and animals into nutrients that return to the ecosystem are called decomposers.

- 34- Food web is the interconnected food chains that show many different feeding relationships.
- 35- Scientists who work on restoration projects to have healthy habitat for plants to survive are called ecologists.
- 36- Throwing plastic garbage and waste materials into a river cause water pollution.
- 37- Heavy rain causes floods which destroys desert ecosystems.
- 38- Seabirds eat small fish that swim near the water surface.
- 39- Removing plants in ecosystem negatively impacts primary consumers.
- 40- Microorganisms are producers that small fish feed on to get energy.
- 41- When the marine habitats are destroyed, the number of living organisms in their food webs is decreased.
- 42- UV rays coming from the Sun, break down plastic wastes into small pieces called microplastics.
- 43- Habitat loss is not only decrease marine population but also it is one of the main causes of extinction.

Write the scientific term:

- 1- The living organisms that can make their own food. (Green plants)
- 2- The vital process that takes place in green plant to make them survive. (Photosynthesis process)
- 3- A liquid substance that plants, animals and human need to survive. (water)
- 4- The source of energy that the plant uses to make photosynthesis. (Sun)
- 5- A part of the plant that supports its leaves and flowers. (Stem)
- 6- The part of the plant that absorbs water and nutrients from the soil. (The root)
- 7- The part of the plant that is responsible for fixing the plant in the soil. (The root)
- 8- Features in the plant's roots that help the plant to get more water and nutrients. (Root hairs)
- 9- The part of the plant that is responsible for making its food. (Green leaves)
- 10- The stems that are extended above and along the ground. (Runners)

- 11- Tiny openings in the plants leaves that allow gases to get into and out of the plant. (Stomata)
- 12- Vessels carry glucose from the plant's leaf to all the plant parts. (Phloem)
- 13- It pumps the blood to all body parts and receives it again. (Heart)
- 14- Vessels that carry the blood rich in oxygen from heart to all body cells. (Arteries)
- 15- Tiny blood vessels that connect arteries to veins. (Blood capillaries)
- 16- Parts of the plant responsible for reproduction. (Flowers)
- 17- The process of producing new plants. (Reproduction)
- 18- A community that contains living organisms and nonliving things. (Ecosystem)
- 19- Living organisms that both humans and animals need to survive. (Producers or Plants)
- 20- The area that provides food, water and shelter to all living organisms which live in it. (Ecosystem)
- 21- It is a model that shows one linear set of feeding relationships and energy flow between living organisms. (Food chains)
- 22- They are consumers which feed on secondary consumers. (Tertiary consumers)
- 23- The animal that is eaten by another animal. (Prey)
- 24- The consumer that hunts and eats another animal. (Predator)
- 25- A group of living organisms that can live on decaying organisms. (Decomposers)
- 26- Organisms that represent the final link in the food chain. (Decomposers)
- 27- It is a process through which decomposers can recycle nutrients back into the soil. (Decomposition process)
- 28- It is the harms that happen to air, water and soil due to human activities. (Pollution)
- 29- A human activity that leads to decreasing the number of fish and affecting many marine food webs. (Overfishing)
- 30- It transfers between animals in a food web, to help them do their activities and survive. (Energy)

- 31- The number of organisms of one type of species lives in an area. (Population)
- 32- Increase or decrease in the number of organisms. (Population change)
- 33- They are organisms that are too small for people to see with only their eyes. (Microorganisms)
- 34- It is a condition in which coral reefs turn completely into white. (Coral bleaching)
- 35- A process of returning a habitat back to its natural state before harm was done. (Habitat restoration)
- 36- It is an area in the sea, where scientists take care of small pieces of coral until they grow up. (Nursery)

Put (√) or (x):

- 1- Plants, like human and animals, need oxygen gas only. (x)
- 2- Plants and humans need water and air to live. (√)
- 3- All plants need soil for growth of the seeds. (x)
- 4- Plants and animals are similar in the way of getting their food. (x)
- 5- Many plants need soil for growth the seeds, some don't. (√)
- 6- All plants have roots, stems and leaves. (√)
- 7- Each part of the plant has its own function. (√)
- 8- Plants need water and air only to grow. (x)
- 9- Stem of the plant absorbs water from the soil. (x)
- 10- Plant's stem has hairs that absorb oxygen gas from the air. (x)
- 11- Plants use the energy of the sunlight to make their own food. (√)
- 12- Photosynthesis process takes place in the plant root. (x)
- 13- Green plant can grow in a dark room. (x)
- 14- Roots of plants collect sunlight and carbon dioxide gas from air. (x)
- 15- Water and carbon dioxide are absorbed by plant's root to help the plant to grow. (x)
- 16- Light is important for plants growth. (√)
- 17- A tree trunk is a type of stems called runners. (x)
- 18- Flowers have a kind of stems called upright stems. (√)

- 19- At the beginning of germinating some bean seeds, they can grow without soil or sunlight. (x)
- 20- The plant grows in the soil lower than on the paper towel. (x)
- 21- Xylems are smaller tubes that connect the stem to the leaf. (✓)
- 22- Chlorophyll is responsible for the green color of the plant. (✓)
- 23- Human circulatory system consists of the heart and the lungs. (x)
- 24- Arteries are vessels in human circulatory system that carry blood rich in carbon dioxide gas. (x)
- 25- Oxygen gas enters the human body through the two lungs. (✓)
- 26- Blood moves in the human body in one direction. (✓)
- 27- The reproductive parts of many plants are flowers. (✓)
- 28- Plant's seeds are formed inside the flowers. (✓)
- 29- There is only one way of seeds dispersal in nature. (x)
- 30- Human could be one of the ways of seed dispersal. (✓)
- 31- There are some activities that don't need energy like listening to music. (x)
- 32- Birds eat insects as a prey to get their energy. (✓)
- 33- There is only one type of ecosystem on the Earth. (x)
- 34- There is no interaction between the components of an ecosystem. (x)
- 35- Hawks, crocodiles and sharks are top predators. (✓)
- 36- Producers don't need consumers to survive. (✓)
- 37- In the decomposition process, the role of decomposers comes before the role of scavengers. (x)
- 38- Hawk can get directly its needed energy by eating beetles. (x)
- 39- Birds are secondary consumers because they eat insects that feed on plant. (✓)
- 40- Predators of living organisms may be a prey for other living organisms. (✓)
- 41- Food web made up of two food chains or more. (✓)
- 42- Dead organisms don't need energy. (✓)
- 43- In a food chain, the energy transfers from eagles to mice. (x)
- 44- There are some consumers that can eat both plants and animals. (✓)
- 45- Nutrients that present in living organisms bodies returned to the ecosystem after death. (✓)

- 46- The suitable ecosystem for plant community ecologists to do their researches is natural area. (√)
- 47- Consumers and decomposers can get energy directly from the sun. (x)
- 48- Recycling of plastic wastes reduces pollution. (√)
- 49- If there is a heavy rain in a desert ecosystem, it will be harmed. (√)
- 50- If producers were removed from an ecosystem, the consumers will need to move away. (√)
- 51- Food webs don't change if their surrounding environments get changed. (x)
- 52- What is happening on land doesn't affect what is happening in marine ecosystem. (x)
- 53- A desert food chain doesn't contain any type of fish or sharks. (√)
- 54- Overfishing is one of the human activities that affect the marine ecosystem. (√)
- 55- It is better to recycle the waste materials than throwing them in rivers and seas. (√)
- 56- Zooplanktons can make their own food by photosynthesis process. (x)
- 57- In a marine food web, there are many top predators like sea star and sea urchin. (x)
- 58- Healthy habitats provide living organisms with clean air, healthy food, water and shelter. (√)
- 59- Forest fire negatively affects the marine organisms. (x)
- 60- Pollution affects both of food resources and animal habitats. (√)
- 61- The flow of energy in food webs is not affected when the natural habitats are destroyed. (x)
- 62- Both of jellyfish and sea turtle are consumers. (√)
- 63- When the temperature of seawater decreases, coral reefs receive more algae. (√)
- 64- Coral bleaching occurs as a result of throwing plastic in seawater. (x)
- 65- Living organisms in seas and oceans cannot differentiate between real food and plastic waste materials. (√)
- 66- Jellyfish can get its energy by eating the sea turtle. (x)

- 67- If coral reefs are destroyed, many marine food chains will be destroyed. (✓)
- 68-Coral reefs depend on butterfly fish for food and shelter. (x)
- 69-Coral reefs are considered as a suitable habitat for sharks. (x)
- 70- It is better to keep natural resources healthy than applying restoration projects. (✓)
- 71- People near the coastal areas must replace cloth bags with plastic one. (x)

Correct the underlined words:

- 1- Respiration process helps the plant to make its own food. (Photosynthesis)
- 2- Oxygen gas is absorbed by plants' leaves to make photosynthesis process. (Carbon dioxide)
- 3- When a plant is placed in sunlight, its leaves become pale green. (dark green)
- 4- When the plant seed begins to grow and makes sprouts this process is called reproduction. (germination)
- 5- Human can get their food from air and animals. (plants)
- 6- Each of xylem in plants and veins in human are two-ways vessels. (one-way)
- 7- Veins carry blood rich in oxygen and nutrients. (Arteries)
- 8- Human circulatory system consists of the lungs and blood vessels. (heart)
- 9- Many insects are considered as secondary consumers. (primary)
- 10- Decomposers are living organisms that depend on other living organisms in their food. (consumer)
- 11- The first link in any food chain is a consumer. (producer)
- 12- It is better for any predator to depend on many species of decomposers to get its energy and survive. (consumers)
- 13- The predator is the consumer eaten by another consumer. (prey)
- 14- Sheep feed on grass, so it considered as a tertiary consumers. (primary)
- 15- Decomposers always harm the soil. (benefit)
- 16- Recycling nutrients back to the ecosystem is the main function of the consumers. (Decomposers)
- 17- The polluted water has a positive effect on coral reefs. (negative)

- 18- Top predators are decomposers that present at the top of food chains. (consumer)
- 19- Due to rising of water temperature, coral reefs turn completely into green. (white)
- 20- Microorganisms are small pieces of plastics in the size of rice grains and they cause harms to marine organisms. (Microplastics)

Choose from column (B) what suits it in column (A)

1)

(A)	(B)
1-Sunlight	a)is absorbed by the roots of the plant.
2- Soil	b) is necessary for plants to survive and grow.
3-Water	c)is not a basic need for plant growth.
4-carbon dioxide	d) a gas which is produced during photosynthesis.
5- Oxygen	e)a gas which is the plant uses during photosynthesis.

1	2	3	4	5
b	c	a	e	d

2)

Column A	Column B
1- Chlorophyll	a. Transport nutrients and water to the plant's leaf.
2- Phloem	b. Allowing air to enter the leaf
3- Stomata	c. Absorbing the sunlight of the sun.
4-Xylem	d. Absorb nutrients from the soil.
5-Root hairs	e. Transport food from the plant's leaf

1	2	3	4	5
c	e	b	a	d

3)

(A)	(B)
1) Coconut seeds	a) sticking to animal fur.
2) Maple seeds and dandelion seeds	b) floating on water.
3) Burr seeds	c) being eaten by animals.
4) Tomato seeds and apple seeds	d) traveling by wind.

1	2	3	4
b	d	a	c

Cross out the odd words:

- 1- Carbon dioxide gas — Water — Oxygen gas — Sunlight.
- 2- Roots — Stem — Leaves — Sunlight.
- 3- Green plant — Shelter — Water — Sunlight.
- 4- Heart – veins – xylem – arteries.
- 5- Plant – xylem – phloem – blood.
- 6- Producers – consumers – non-living organisms – decomposers.
- 7- Sunlight – consumers – glucose – photosynthesis process.
- 8- Fungi – snakes – millipedes – bacteria.
- 9- Lion – sharks – tigers – foxes.
- 10- Rabbit – sheep – bacteria – goat.
- 11- Eagle – hawk – rabbit – crocodile.
- 12- Pine tree – grasses – houseflies – apple tree.
- 13- Clam – sea urchin – zooplankton – algae.

Give reasons for:

- 1- Photosynthesis process is important for plants to survive.
 - Because it helps the plants to make their own food.
- 2- There is no life on Earth in the absence of plants.
 - Because plants produce oxygen gas during photosynthesis process which is important for all living organisms to breathe.
- 3- Roots have important role in photosynthesis process of plants.
 - Because the roots help the plant to get water and nutrients from the soil.
- 4- Stomata are present on plant's leaves.
 - To allow air pass through it.
- 5- Green plants can make their own food.
 - Because they can make photosynthesis process.
- 6- Chlorophyll in plant's leaves has an important role in photosynthesis process.
 - Because it absorbs the energy of sunlight that helps the plant to make photosynthesis.
- 7- Circulatory system has an important role for human to survive.
 - Because it transports blood and other fluids throughout the body.
- 8- Flowers are important parts for the plant.
 - Because they produce seeds that help plants to reproduce.
- 9- Xylem in plant is a one-way vessel. (Xylem is important in plants)
 - Because it carry water and nutrients from roots to leaves.
- 10- Seeds of maple or dandelion plants can disperse through wind easily.
 - Because they are light seeds that can fly with wind easily.
- 11- Burdock seed can stick to animal fur.
 - Because they are spiny seeds.
- 12- Sunlight is important for all living organisms.
 - Because plants absorb sunlight to make their own food, then humans and animals eat these plants.
- 13- Human needs to eat some animals and plants.
 - To get energy and to do his activities.

14- All the food chains begin with the producers.

- **Because producers makes their own food by photosynthesis process.**

15- All the food chains depend on sunlight.

- **Because all food chains begin with producers that depend on sunlight to make their own food.**

16- Consumers depend on producers to get their energy.

- **Because consumers cannot make their own food.**

17- Soil fertility depends on decomposers.

- **Because decomposers return nutrients of dead organisms back to the soil.**

18- When the number of one species of consumers in an ecosystem increases, they will die.

- **Because they will not find enough food to eat.**

19- Food webs can be destroyed due to pollution.

- **Because pollution negatively affects all living organisms in food webs.**

20- Death of algae may leads to moving sharks away to another place.

- **Because sharks feed on different fish that feed on algae.**

21- Plastics are very harmful to marine organisms.

- **Because plastics are toxic and sharp.**

22- Coral bleaching happens when the water temperature rises.

- **Because when the water temperature raises the coral reefs get rid of algae from their tissues.**

23- Both of rising water temperature and ingesting microplastics are harmful for coral reefs.

- **Because rising of water temperature cause coral bleaching while microplastics are toxic and sharp.**

What happens if.:

- 1- Plants can't get carbon dioxide gas from air.
 - Plants can't make their own food during photosynthesis process.
- 2- We put a green plant in a dark room for many days.
 - Plant leaves will be yellow (or pale green).
- 3- We put a seed of bean in a wet soil for many days.
 - It will germinate and grow well.
- 4- The plant stops making photosynthesis process for several days.
 - It can't make food and will die.
- 5- Plants can't produce glucose sugar during photosynthesis process.
 - Plant can't get energy to survive and grow.
- 6- We remove the flowers of a plant.
 - Plant can't produce seeds for reproduction.
- 7- A hawk is place in an ecosystem contain plants only.
 - The hawk moves away to another ecosystem to search for food.
- 8- There is no sunlight reaches the Earth's surface.
 - The plants cannot make their own food by photosynthesis process.
- 9- All types of decomposers are absent from an ecosystem.
(There is no decomposition process done on the Earth).
 - Dead organisms will not be decomposed, and their nutrients will not return back to the soil.
- 10- All primary consumers disappear from a certain food chain.
 - The producers will increase while secondary consumers will move away to another ecosystem to search for food or they will die.
- 11- The number of secondary consumers in an ecosystem decreases.
 - The number of primary consumers increases.
- 12- The climate change is unsuitable for a population of one type of species.
 - The population of this species will decrease.
- 13- The seawater in which coral reefs live becomes very warm.
 - Algae will move away to cooler water and this causes the coral bleaching.

Answer the following questions:

1- What are the main parts of plant?

- Roots, stem and leaves.

2- What are the basic needs for plant?

- Sunlight, water, nutrients and carbon dioxide.

3- Mention three ways of seed dispersal.

- Water, wind and living organisms.

4- Form a food chain by using the following living organisms :

a) (Lion – Grasses – Deer)

- Grasses → deer → lion

b) (grass – rat – hawk – snake)

- Grass → rat → snake → hawk

c) (small fish – seabirds – bacteria – microorganisms)

- Microorganisms → small fish → seabirds → bacteria

d) (clam – sea star – algae – shark)

- Algae → clam → sea star → shark

e) (parrotfish – algae – coral reefs – shark)

- Algae → coral reefs → parrotfish → shark

5- Mention how we can decrease the using of plastic products?

- Replace the plastic forks with wooden ones.
- Replace the plastic bags with cloth ones.
- Recycle the plastic products instead of throwing them in the sea.

G5 Final Revision unit 2

Choose the correct answer:

- 1- Water can be found in a solid state in the form of
a) ice b) steam c) sea water d) boiling water.
- 2- An example of a gas is
a) chocolate b) rock c) pencil d) oxygen
- 3- Both and have the same state of matter.
a) wood – water b) plastic – oil c) wood – milk d) wood – plastic
- 4- By changing the of a matter, its state may change.
a) mass b) volume c) color d) temperature
- 5- All of these substances are liquids, except
a) Oil b) milk c) stone d) Vinegar
- 6- Both and are solids as they have definite shape and volume.
a) Wood – oxygen b) milk – iron c) wood – iron d) milk – oxygen
- 7- All the following are liquid matters that used in preparing food, except
a) water b) vinegar c) oil d) rice
- 8- One of the substances that doesn't take the shape of its container is
a) oil b) coin c) gasoline d) water.
- 9- The movement of water particles is slower than that of
a) wood b) plastic c) air d) gold.
- 10- Particles of vibrate around their place.
a) glass b) air c) oxygen d) water
- 11- We can use a model to study very large things such as
a) solar system b) germs c) microbes d) viruses.
- 12- Some liquids come out of a during its eruption.
a) star b) sun c) volcano d) plastic piece
- 13- All the following can be used to describe matter except
a) shape b) price c) color d) texture

- 14- Which of the following homes have an inclined roof?**
- a) Desert homes only. b) Tropical rainforest homes only.
c) Desert homes and cold weather homes.
d) Tropical rainforest homes and cold weather homes.
- 15- Homes which are built in a cold weather area have roofs made up of.....**
- a) ceramic tiles b) strong stones
c) carton paper d) leaves and sticks.
- 16- To measure the length of a table, we can use a**
- a) thermometer b) cylinder c) balance d) measuring tape
- 17- We can measure the mass of a cube of ice by using a**
- a) thermometer b) cylinder c) balance d) ruler
- 18- We can identify milk by determining its**
- a) color and texture b) color and size
c) shape and odor d) color and taste
- 19- All the following properties of matter can be measured by different tools except.....**
- a) mass b) volume c) color d) temperature
- 20- All the following are physical properties of matter except.....**
- a) color b) rusting c) texture d)shape.
- 21- Burning of wood is considered as of matter.**
- a) only physical property b) only chemical property
c) both physical and chemical properties
d) neither physical nor chemical properties
- 22- When the iron interacts with water and air, it**
- a) becomes ash b) becomes powder c) rusts d) burns.
- 23- If water is exposed to high temperature, its particles will move
and the water may change into**
- a) faster – ice b) faster – water vapor
c) slower – ice d) slower – water vapor.
- 24- Which of the following matter is attracted to the magnet?**
- a) Ice cube b) Iron clip c) Woody spoon d) Plastic ruler.

- [illegible]

- [illegible]

- 46- A compound has all the following properties, except that its components.....
- a) combine chemically
 - b) form new substance
 - c) change in their shapes
 - d) do not change chemically or physically
- 47- By adding baking soda to vinegar, a is formed.
- a) Powder
 - b) compound
 - c) mixture
 - d) solid matter
- 48- If we mix two equal masses of salt and oil so, their total mass will after mixing.
- a) equal to zero
 - b) decrease
 - c) increase
 - d) not change
- 49- Among mixtures between two liquids is
- a) vinegar and salt mixture
 - b) orange juice and apple juice
 - c) salty water mixture
 - d) sand and water mixture
- 50- Among chemical unexpected color change is the color that is produced from mixing
- a) baking soda with vinegar
 - b) iodine with cornstarch
 - c) food colors with water
 - d) salt with water.
- 51- People cannot drink the water of oceans and seas because it is a mixture of water and
- a) salt only
 - b) minerals only
 - c) living organisms only
 - d) all the previous
- 52-. We can use processes to separate fresh drinkable water from the water of seas and oceans.
- a) filtration and rusting
 - b) evaporation and melting
 - c) filtration and coloring
 - d) filtration and evaporation
- 53-. We can use filtration process to remove all the following from sea water, except
- a) seaweed
 - b) salt
 - c) shells
 - d) fish

Complete the following sentences:

- 1- States of matter are, liquid and
- 2- Gasoline is a matter while sand is a matter.
- 3- Iron and gold are examples of state of matter.
- 4- Any matter is made up of millions of tiny that we cannot see with our eyes.
- 5- The shape of matter doesn't change unless something is happening to change it.
- 6- Liquids have definite, but their is not definite.
- 7- have no definite shape and no definite volume.
- 8- Particles of matters are very close to each other.
- 9- Particles of matter can slide over each other so they take the of their containers.
- 10- Particles of matters vibrate around their place.
- 11- The Earth is a planet in the system.
- 12- The of a pen can be measured by using a ruler.
- 13- When an ice cube is exposed to the Sun, the speed of movement of its particles will
- 14- Water evaporates when it is exposed to temperature.
- 15- When we keep water inside the freezer, the state of water changes from state into state.
- 16- The roof of desert home is and made up of
- 17- We can use different materials to make a roof, depending on the where the home is located.
- 18- Both of odor and texture of matter are considered from the properties of matter.
- 19- The temperature by increasing the speed of moving particles of a matter.
- 20- The of your school bag can be determined by a balance.
- 21- is used in making gloves because it is waterproof and
- 22- An iron ruler in water, and to the magnet.

- 23- Helium is than air, and this property is considered asproperty.
- 24- Matter can be changed from one state to another by changing its
- 25- When ice melts, it turns from state to state.
- 26- Condensation changes the matter fromstate tostate.
- 27- When we heat a liquid, the distance between its particles will
- 28- Melting process occurred bythe temperature of the matter.
- 29- 0°C is the freezing point of
- 30- The reversible changes of matter are usuallychanges.
- 31- The change in the structure of the original matter producing a new matter is known aschange.
- 32- Cutting a paper into pieces is considered as a change, while burning it is considered as a change.
- 33- The reaction between some metals andgas causes loss of their shining, and this reaction is considered as a change of matter.
- 34- When oxygen combines with carbon and hydrogen, energy is produced.
- 35- Iron rusting is achange, while iron painting is achange.
- 36- Making yoghurt from milk is a change.
- 37- and are ways of mixtures separation.
- 38- Salty water is a mixture that consists of salt which is a state of matter and water which is a state of matter.
- 39- To separate mud from salty water we can use process.
- 40- When two substances combine and form a new substance, this new substance is called a
- 41- If we have 6 gm of water and 6 gm of sugar, after mixing them the mass of whole mixture will be gm.
- 42- The mass of a mixed substance will not be changed during formation of, but their properties will be changed.
- 43- By mixing salt with pepper, a is formed which has no change in the properties and of its components.

Write the scientific term:

- 1-Anything that has a mass and a volume. (.....)
- 2-The state of water after its freezing. (.....)
- 3-A property of matter by which we can distinguish between hot and cold objects. (.....)
- 4-The state of matter that has definite volume and shape. (.....)
- 5-The state of matter that has a lot of spaces between its particles.(.....)
- 6-Matter that takes the shape of its container, but its volume cannot be changed. (.....)
- 7-The building units of matter. (.....)
- 8-A device used to examine objects that are too small to be seen with the naked eye. (.....)
- 9-It is the amount of space that matter takes up. (.....)
- 10- A copy that is similar to a real thing which we cannot observe with our eyes. (.....)
- 11- The property of matter which is measured by the measuring cup.(.....)
- 12- The properties of matter which you can observe them by using your five senses. (.....)
- 13- The properties of matter which can be observed and measured by the changes that happen when the material interacts with other materials. (.....)
- 14- It is a measure of the amount of matter. (.....)
- 15- It is a measure of how quickly the particles in a matter are moving. (.....)
- 16- It is a light gas which is used in filling blimps. (.....)
- 17- The ability of material to transfer heat and conduct electricity. (.....)
- 18- They are changes in matter which are usually reversible and don't affect its structure. (.....)
- 19- It is the substance that consists of more than one matter that don't have any physical or chemical change in their properties. (.....)

20-A matter that is formed when two or more materials combine chemically. (.....)

21-The process of removing salt from salt water. (.....)

22-The process which can be used to remove any large materials from sea and ocean water. (.....)

23-The process which can be used to separate salt and minerals from salt water of seas and oceans. (.....)

Put (✓) or (x):

1- Matter never changes from one state to another. ()

2- All matters are made up of tiny particles that are in a continuous motion.()

3- All forms of matter are colored. ()

4- Particles of wood are different from particles of plastic. ()

5- All forms of matter have volume. ()

6- Particles of water can move more freely than the particles of water vapor. ()

7- Air particles are visible as they are very large particles. ()

8- All matters have only one shape. ()

9- Two equal amounts of sugar and salt cannot take up the same space at the same time. ()

10- Air is matter so it has mass. ()

11- Particles of solid matter are spread out from each other. ()

12- Gases don't have a definite shape or volume. ()

13- Particles of liquids move faster than solids and have a definite volume. ()

14- Particles of an aluminium spoon are similar to particles of a golden ring. ()

15- Frozen vegetables and vinegar have definite shape. ()

16- Liquid particles move more freely than solid particles. ()

17- Both gold and milk have definite shape. ()

18- Natural gas used in gas oven has no definite shape or volume. ()

19- All objects can be seen with the naked eye. ()

20- The type of particles affects their size. ()

- 21- Models help us understand ideas, objects or processes. ()
- 22- Germs are very large organisms that can be seen with the naked eye. ()
- 23- Most germs can spread through the air from a person to another. ()
- 24- Models help us understand things that we can easily see with our eyes. ()
- 25- The roof of tropical rainforest home is made up of leaves and sticks. ()
- 26- The length of the classroom wall is measured by using a balance. ()
- 27- We can describe a solid matter by its color and shape. ()
- 28- We can differentiate between sugar and salt by using their color. ()
- 29- Burning of fuel is considered from chemical properties of fuel. ()
- 30- One kilogram of water has a volume equals 1000 milliliters. ()
- 31- All physical properties of matter can be measured. ()
- 32- Changing the shape of matter doesn't affect its mass. ()
- 33- Salt and sugar have the same color and odor. ()
- 34- If we put a wood cube in water it will float. ()
- 35- Iron nail is attracted to the magnet and floats on the surface of water. ()
- 36- If the masses of two different materials are equal, so their volume must be equal. ()
- 37- From the chemical properties of helium is that it is not flammable. ()
- 38- When a balloon is filled with helium, it will fall down on the ground. ()
- 39- If a matter absorbs light energy, its particles vibrate and move faster. ()
- 40- An ice cream turns into liquid by cooling. ()
- 41- Freezing takes place by cooling, while melting takes place by heating. ()
- 42- If we increase the temperature of some pieces of ice, they will melt. ()
- 43- Cutting a piece of cloth is considered as a physical change because it produces a new substance. ()
- 44- Melting and freezing are reversible processes. ()
- 45- Water remains liquid between 0°C and 100°C. ()
- 46- When hot water vapor hits cooler air it forms steam. ()
- 47- Melting of wax produces new substance. ()
- 48- Digestion of food forms a new substance which has new properties. ()
- 49- There is a change in shape when you coil a piece of paper. ()
- 50- Rusting of iron doesn't change the structure of iron. ()

- 51- The mass of some pieces of ice will be the same when they are melted. ()
- 52- We can use evaporation process to form mixtures. ()
- 53- The mass of an amount of apple juice will change if we mix it with water. ()
- 54- The change that is produced as a result of iron rusting is the same change produced from making bread. ()
- 55- During chemical change, the properties of the matter will be changed. ()
- 56- By mixing some vegetables together their properties will change. ()
- 57- You can taste the salt in salty water mixture. ()
- 58- You can see the different components of the salty water. ()
- 59- Atmospheric air is considered as a mixture because it consists of liquids and gases matter. ()
- 60- The mass and properties of oil will change when mixing it with vinegar. ()
- 61- Salt and pepper mixture is formed from two solid materials mixed together. ()
- 62- You can separate oil from water by filtration process. ()
- 63- When dissolving salt in water, the salt disappears forming a new substance. ()
- 64- Formation of ash during burning of paper is considered as a change which forms a new substance. ()
- 65- We can separate baking soda from vinegar easily after mixing them together. ()
- 66- All people around the world can reach fresh water easily. ()
- 67- Water of oceans and seas is considered as a mixture because it consists of water, minerals and gases. ()
- 68- Among the problems of desalination process is that it requires a lot of energy and it is very expensive process. ()
- 69- To get drinkable water from salty water we can use filtration process only. ()
- 70- Among environmental problems which caused by desalination process is that it is very expensive process. ()

Correct the underlined words:

- 1- Matter can be found in 2 states. (.....)
- 2- The state of the air we breathe is solid. (.....)
- 3- Carbon dioxide is a liquid matter. (.....)
- 4- Light and sound are forms of matter. (.....)
- 5- Gases keep their shape and volume whatever the container changes. (.....)
- 6- On transferring water from one pot to another, its volume will change. (.....)
- 7- To describe the particles of a matter in liquid state by modeling balls, we should put the balls packed together. (.....)
- 8- Regular microscope is used to examine one tiny particle such as a blood cell. (.....)
- 9- We can measure the volume of an amount of oil by using tape measure. (.....)
- 10- The volume of a liquid can be measured in kilogram. (.....)
- 11- The volume of 1000 cubic centimeters of a liquid is equal the same volume of 1 gram. (.....)
- 12- Shape is one of chemical properties of matter. (.....)
- 13- The mass of 1 kilogram of apple equals the mass of 100 pieces of paper clip. (.....)
- 14- When particles of matter move quickly they produce more electrical energy. (.....)
- 15- Blimps are filled with oxygen gas to rise up in the air. (.....)
- 16- Rubber is very hard, so it is used in making athletic shoes. (.....)
- 17- When particles of a matter absorb thermal energy, they move slower. (.....)
- 18- Freezing of liquid chocolate needs high temperature. (.....)
- 19- When we boil water, it will condense. (.....)
- 20- When a solid matter gains thermal energy, it will change into gas state. (.....)

- 21- To change water from solid state to liquid and then to gas state, we need to decrease the temperature. (.....)
- 22- When you strike a match, light energy and electrical energy are produced. (.....)
- 23- We can separate sand from water by using evaporation process. (.....)
- 24- The properties of the components of mixture change after mixing them with each other. (.....)
- 25- The substances that form a compound combine physically forming a new substance. (.....)
- 26- .By adding iodine to starch, the color of the formed compound will change into dark green. (.....)
- 27- .Burning fuel in car is considered as physical change. (.....)
- 28- .The mass of salt in salty water will be increased after the mixture is formed. (.....)
- 29- .After evaporation of seawater, the water vapor turns into liquid water by heating. (.....)
- 30- .Drinking salt water makes the human body dehydrate slower.(.....)

Choose from column (B) what suits it in column (A)

1)

(A)	(B)
1) Carbon dioxide	a) has a definite volume but has not definite shape.
2) Sand	b) take the shape and the volume of their containers.
3) Globe	c) tool used to measure the length of a wall.
4) Gasoline	d) has a fixed shape and volume.
5) Measuring tape	e) A model of the whole world that is made in the shape of a large ball.

1	2	3	4	5
.....

2)

(A)	(B)
1) Thermometer	a) is used to determine the length of a book.
2) Ruler	b) is used to determine the mass of some apples.
3) Measuring cup	c) is used to determine the temperature of a hot cup of tea.
4) Balance	d) is used to determine the volume of an amount of water

1	2	3	4
.....

3)

(A)	(B)
1) Melting	a) is the change of water from liquid state to gas state.
2) Freezing	b) is the change of water from gas state to liquid state.
3) Evaporation	c) is the change of water from solid state to liquid state.
4) Condensation	d) is the change of water from liquid state to solid state.

1	2	3	4
.....

4)

(A)	(B)
1) Expected change in color	a) cutting a tomato into small pieces.
2) Formation of strong odor	b) adding drops of food colors to a cup of water.
3) Change in size	c) mixing iodine with cornstarch.
4) Unexpected change in color	d) leaving a cup of milk out of fridge for a long time.

1	2	3	4
.....

Cross out the odd words and name the group:

1- Oil – Milk – Water – Wood.

➤ The group:

2- Plastic – Vinegar – Iron – Aluminium.

➤ The group:

3- Coal - Carbon dioxide – Oxygen – Air.

➤ The group:

4- Wood – Iron – Oxygen – Gold.

➤ The group:

5- Shape – mass – rusting – color.

➤ The group:

6- Kilogram (kg) – milliliters (m) – cubic centimeters (cm³) – liters (L).

➤ The group:

7- Mass – gram – kilogram – liters.

➤ The group:

Give reasons for:

1- Salt is a matter.

➤

2- Sugar is a solid matter.

➤

3- Wood has definite shape and volume.

➤

4- Oxygen has no definite shape or volume.

➤

5- Particles of gases can spread out quickly to fill up any container they put in.

➤

6- Both liquids and gases don't have a definite shape and take the shape of their containers.

➤

7- Oil used in cooking is considered as an example of liquid matter.

➤

8- Rubber differs from iron. (According to their hardness).

➤

9- Using models to study some scientific concepts.

➤

10- Sometimes we need to use an electron microscope.

➤

11- The roof of desert home is made of strong stones.

➤

12- The roof of tropical rainforest home is made of leaves and sticks.

➤

13- Rains and snow can't enter homes of cold weather regions.

➤

14- Rusting of iron is considered from chemical properties of matter.

➤

15- When the particles of a matter move quickly, its temperature increases.

➤

16- Helium is used to fill balloons and blimps.

➤

17- Human can use helium gas safely.

➤

18- Copper is used in making cooking pans.

➤

19- Wood and plastic are used in making handles of cooking pans.

➤

20- Copper is used in making electrical wires.

➤

21- Steel is used in making hammers.

➤

22- Glass can be used in making eyeglasses.

➤

23- Ice is turned into water when it is placed in a warm room.

➤

24- Formation of water drops when water vapor touches a cold surface.

➤

25- Both melting and freezing processes are considered as physical changes.

➤

26- Making bread is considered as a chemical change.

➤

.....

27- Fruit salad and salty water are considered as mixtures.

➤

.....

28- Air is considered as a mixture.

➤

29- Filtration process is used to separate sand from water.

➤

30- By adding baking soda to vinegar the properties of each of them are changed.

➤

31- Formation of a bad odor when milk is left out of the fridge for several days.

➤

32- The components of mixture don't produce a new substance when combining together.

➤

33- Formation of a layer with reddish color on the surface of a wet iron wire.

➤

34- We cannot drink the water of oceans and seas.

➤

.....

What happens if (to).....:

1- We put small amount of milk in the freezer for few hours.

(According to the state of milk)

➤

2- Water is heated in the kettle for few minutes.

(According to the state of water after heating).

➤

3- We put three equal amounts of water in three different containers.

(According to the shape of water)

➤

4- We transfer it from a cup to another cup.

(According to the volume of a coin)

➤

5- Water changes into ice.

(According to its shape).

➤

6- The arrangement of particles of water after its freezing.

➤

7- A liquid changes into gas.

(According to the speed of particles)

➤

8- We try to examine the particles of any substance with our naked eyes.

➤

9- The size of a balloon when you blow it up.

➤

10- The speed of particles of an ice cube when it is exposed to the Sun.

➤

11- The roof of cold weather homes is flat.

➤

12- A piece of paper interacts with fire.

➤

13- The speed of particles of a matter decreases. (according to its temperature)

➤

14- A magnet is put close to an iron nail and a plastic spoon.

-
-

15- A piece of cork is put in water.

-

16- A blimp is filled with helium gas.

-

17- Electrical wire is made from plastic instead of copper.

-

18- You touch a handle of cooking pan made of copper and putted on gas oven.

-

19- We heat an amount of water. (according to the motion of particles)

-

20- The particles of water when its temperature is decreased below 0°C .

-

21- The particles of water when we increase its temperature above 100°C .

-
-

22- We mix iodine with cornstarch.

-

23- Oxygen, carbon and hydrogen are combining together.

-

24- You expose a shiny piece of metal to air (oxygen) for a long period of time.

-

25- Salty water when heating it for a long time.

-

26- The mass and properties of sugar when adding it to an amount of flour.

-

Best Wishes
Dr/ Zeinab Salah

G5 Final Revision unit 2

Choose the correct answer:

- 1- Water can be found in a solid state in the form of
a) ice b) steam c) sea water d) boiling water.
- 2- An example of a gas is
a) chocolate b) rock c) pencil d) oxygen
- 3- Both and have the same state of matter.
a) wood – water b) plastic – oil c) wood – milk d) wood – plastic
- 4- By changing the of a matter, its state may change.
a) mass b) volume c) color d) temperature
- 5- All of these substances are liquids, except
a) Oil b) milk c) stone d) Vinegar
- 6- Both and are solids as they have definite shape and volume.
a) Wood – oxygen b) milk – iron c) wood – iron d) milk – oxygen
- 7- All the following are liquid matters that used in preparing food, except
a) water b) vinegar c) oil d) rice
- 8- One of the substances that doesn't take the shape of its container is
a) oil b) coin c) gasoline d) water.
- 9- The movement of water particles is slower than that of
a) wood b) plastic c) air d) gold.
- 10- Particles of vibrate around their place.
a) glass b) air c) oxygen d) water
- 11- We can use a model to study very large things such as
a) solar system b) germs c) microbes d) viruses.
- 12- Some liquids come out of a during its eruption.
a) star b) sun c) volcano d) plastic piece
- 13- All the following can be used to describe matter except
a) shape b) price c) color d) texture

- 14- Which of the following homes have an inclined roof?**
- a) Desert homes only. b) Tropical rainforest homes only.
c) Desert homes and cold weather homes.
d) Tropical rainforest homes and cold weather homes.
- 15- Homes which are built in a cold weather area have roofs made up of.....**
- a) ceramic tiles b) strong stones
c) carton paper d) leaves and sticks.
- 16- To measure the length of a table, we can use a**
- a) thermometer b) cylinder c) balance d) measuring tape
- 17- We can measure the mass of a cube of ice by using a**
- a) thermometer b) cylinder c) balance d) ruler
- 18- We can identify milk by determining its**
- a) color and texture b) color and size
c) shape and odor d) color and taste
- 19- All the following properties of matter can be measured by different tools except.....**
- a) mass b) volume c) color d) temperature
- 20- All the following are physical properties of matter except.....**
- a) color b) rusting c) texture d)shape.
- 21- Burning of wood is considered as of matter.**
- a) only physical property b) only chemical property
c) both physical and chemical properties
d) neither physical nor chemical properties
- 22- When the iron interacts with water and air, it**
- a) becomes ash b) becomes powder c) rusts d) burns.
- 23- If water is exposed to high temperature, its particles will move and the water may change into**
- a) faster – ice b) faster – water vapor
c) slower – ice d) slower – water vapor.
- 24- Which of the following matter is attracted to the magnet?**
- a) Ice cube b) Iron clip c) Woody spoon d) Plastic ruler.

- [illegible]

- 36-** When the temperature of water is decreased below 0°C, it will be turned into
- a) water vapor b) clear water
c) hot water d) ice
- 37-** Physical processes which need heating include
- a) melting and freezing b) melting and condensation
c) melting and evaporation d) freezing and evaporation
- 38-** The two processes which cause particles of matter get close together are
- a) freezing and condensation b) freezing and melting
c) freezing and evaporation d) melting and condensation
- 39-** Physical changes of matter include
- a) melting only b) freezing only
c) both melting and freezing d) neither melting nor freezing
- 40-** From the changes which don't form a new substance is
- a) burning of paper b) cutting of wood
c) baking bread d) rusting of iron
- 41-** Among chemical changes which occurred in cooking is
- a) cutting vegetables b) boiling of water
c) melting of chocolate d) baking a cake
- 42-** During burning of wood, energies are produced.
- a) electrical and light b) thermal and light
c) thermal and electrical d) sound and electrical.
- 43-** The of iodine will not change after mixing it with starch.
- a) mass only b) color only
c) color and mass d) properties and mass
- 44-** Salt can be separated by of salty water.
- a) filtration b) evaporation c) melting d) freezing
- 45-** To separate sand only from salty water, we can use process.
- a) filtration b) evaporation c) melting d) freezing

46- A compound has all the following properties, except that its components.....

- a) combine chemically**
- b) form new substance**
- c) change in their shapes**
- d) do not change chemically or physically**

47- By adding baking soda to vinegar, a is formed.

- a) Powder b) compound c) mixture d) solid matter

48- If we mix two equal masses of salt and oil so, their total mass will after mixing.

- a) equal to zero b) decrease c) increase d) not change

49- Among mixtures between two liquids is

- a) vinegar and salt mixture b) orange juice and apple juice
c) salty water mixture d) sand and water mixture

50- Among chemical unexpected color change is the color that is produced from mixing

- a) baking soda with vinegar
b) iodine with cornstarch
c) food colors with water
d) salt with water.

51- People cannot drink the water of oceans and seas because it is a mixture of water and

- a) salt only
b) minerals only
c) living organisms only
d) all the previous

52-. We can use processes to separate fresh drinkable water from the water of seas and oceans.

- a) filtration and rusting
b) evaporation and melting
c) filtration and coloring
d) filtration and evaporation

53-. We can use filtration process to remove all the following from sea water, except

- a) seaweed b) salt c) shells d) fish**

Complete the following sentences:

- 1- States of matter are solid, liquid and gas.
- 2- Gasoline is a liquid matter while sand is a solid matter.
- 3- Iron and gold are examples of solid state of matter.
- 4- Any matter is made up of millions of tiny particles that we cannot see with our eyes.
- 5- The shape of solid matter doesn't change unless something is happening to change it.
- 6- Liquids have definite volume, but their shape is not definite.
- 7- Gases have no definite shape and no definite volume.
- 8- Particles of solid matters are very close to each other.
- 9- Particles of liquid matter can slide over each other so they take the shape of their containers.
- 10- Particles of solid matters vibrate around their place.
- 11- The Earth is a planet in the solar system.
- 12- The length of a pen can be measured by using a ruler.
- 13- When an ice cube is exposed to the Sun, the speed of movement of its particles will increase.
- 14- Water evaporates when it is exposed to high temperature.
- 15- When we keep water inside the freezer, the state of water changes from liquid state into solid state.
- 16- The roof of desert home is flat and made up of strong stones.
- 17- We can use different materials to make a roof, depending on the climate where the home is located.
- 18- Both of odor and texture of matter are considered from the physical properties of matter.
- 19- The temperature increases by increasing the speed of moving particles of a matter.
- 20- The mass of your school bag can be determined by a balance.
- 21- Rubber is used in making gloves because it is waterproof and flexible.
- 22- An iron ruler sinks in water, and attract to the magnet.

- 23- Helium is lighter than air, and this property is considered as physical property.
- 24- Matter can be changed from one state to another by changing its temperature.
- 25- When ice melts, it turns from solid state to liquid state.
- 26- Condensation changes the matter from gas state to liquid state.
- 27- When we heat a liquid, the distance between its particles will increase.
- 28- Melting process occurred by increasing the temperature of the matter.
- 29- 0°C is the freezing point of water.
- 30- The reversible changes of matter are usually physical changes.
- 31- The change in the structure of the original matter producing a new matter is known as chemical change.
- 32- Cutting a paper into pieces is considered as a physical change, while burning it is considered as a chemical change.
- 33- The reaction between some metals and oxygen gas causes loss of their shining, and this reaction is considered as a chemical change of matter.
- 34- When oxygen combines with carbon and hydrogen, thermal energy is produced.
- 35- Iron rusting is a chemical change, while iron painting is a physical change.
- 36- Making yoghurt from milk is a chemical change.
- 37- Evaporation and filtration are ways of mixtures separation.
- 38- Salty water is a mixture that consists of salt which is a solid state of matter and water which is a liquid state of matter.
- 39- To separate mud from salty water we can use filtration process.
- 40- When two substances combine and form a new substance, this new substance is called a compound.
- 41- If we have 6 gm of water and 6 gm of sugar, after mixing them the mass of whole mixture will be 12 gm.
- 42- The mass of a mixed substance will not be changed during formation of mixture, but their properties will be changed.
- 43- By mixing salt with pepper, a mixture is formed which has no change in the properties and mass of its components.

Write the scientific term:

- 1-Anything that has a mass and a volume. (matter)
- 2-The state of water after its freezing. (solid state)
- 3-A property of matter by which we can distinguish between hot and cold objects. (temperature)
- 4-The state of matter that has definite volume and shape. (solid)
- 5-The state of matter that has a lot of spaces between its particles. (gas)
- 6-Matter that takes the shape of its container, but its volume cannot be changed. (liquid)
- 7-The building units of matter. (particles)
- 8-A device used to examine objects that are too small to be seen with the naked eye. (microscope)
- 9-It is the amount of space that matter takes up. (volume)
- 10- A copy that is similar to a real thing which we cannot observe with our eyes. (model)
- 11- The property of matter which is measured by the measuring cup.(volume)
- 12- The properties of matter which you can observe them by using your five senses. (physical properties)
- 13- The properties of matter which can be observed and measured by the changes that happen when the material interacts with other materials. (chemical properties)
- 14- It is a measure of the amount of matter. (Mass)
- 15- It is a measure of how quickly the particles in a matter are moving. (Temperature)
- 16- It is a light gas which is used in filling blimps. (Helium)
- 17- The ability of material to transfer heat and conduct electricity. (conduction)
- 18- They are changes in matter which are usually reversible and don't affect its structure. (physical changes)
- 19- It is the substance that consists of more than one matter that don't have any physical or chemical change in their properties. (Mixture)

- 20-A matter that is formed when two or more materials combine chemically. (Compound)
- 21-The process of removing salt from salt water. (desalination process)
- 22-The process which can be used to remove any large materials from sea and ocean water. (filtration)
- 23-The process which can be used to separate salt and minerals from salt water of seas and oceans. (evaporation)

Put (✓) or (x):

- 1- Matter never changes from one state to another. (x)
- 2- All matters are made up of tiny particles that are in a continuous motion.(✓)
- 3- All forms of matter are colored. (x)
- 4- Particles of wood are different from particles of plastic. (✓)
- 5- All forms of matter have volume. (✓)
- 6- Particles of water can move more freely than the particles of water vapor. (x)
- 7- Air particles are visible as they are very large particles. (x)
- 8- All matters have only one shape. (x)
- 9- Two equal amounts of sugar and salt cannot take up the same space at the same time. (✓)
- 10- Air is matter so it has mass. (✓)
- 11- Particles of solid matter are spread out from each other. (x)
- 12- Gases don't have a definite shape or volume. (✓)
- 13- Particles of liquids move faster than solids and have a definite volume. (✓)
- 14- Particles of an aluminium spoon are similar to particles of a golden ring. (x)
- 15- Frozen vegetables and vinegar have definite shape. (x)
- 16- Liquid particles move more freely than solid particles. (✓)
- 17- Both gold and milk have definite shape. (x)
- 18- Natural gas used in gas oven has no definite shape or volume. (✓)
- 19- All objects can be seen with the naked eye. (x)
- 20- The type of particles affects their size. (✓)

- 21- Models help us understand ideas, objects or processes. (✓)
- 22- Germs are very large organisms that can be seen with the naked eye. (x)
- 23- Most germs can spread through the air from a person to another. (✓)
- 24- Models help us understand things that we can easily see with our eyes. (x)
- 25- The roof of tropical rainforest home is made up of leaves and sticks. (✓)
- 26- The length of the classroom wall is measured by using a balance. (x)
- 27- We can describe a solid matter by its color and shape. (✓)
- 28- We can differentiate between sugar and salt by using their color. (x)
- 29- Burning of fuel is considered from chemical properties of fuel. (✓)
- 30- One kilogram of water has a volume equals 1000 milliliters. (✓)
- 31- All physical properties of matter can be measured. (x)
- 32- Changing the shape of matter doesn't affect its mass. (✓)
- 33- Salt and sugar have the same color and odor. (x)
- 34- If we put a wood cube in water it will float. (✓)
- 35- Iron nail is attracted to the magnet and floats on the surface of water. (x)
- 36- If the masses of two different materials are equal, so their volume must be equal. (x)
- 37- From the chemical properties of helium is that it is not flammable. (✓)
- 38- When a balloon is filled with helium, it will fall down on the ground. (x)
- 39- If a matter absorbs light energy, its particles vibrate and move faster. (✓)
- 40- An ice cream turns into liquid by cooling. (x)
- 41- Freezing takes place by cooling, while melting takes place by heating. (✓)
- 42- If we increase the temperature of some pieces of ice, they will melt. (✓)
- 43- Cutting a piece of cloth is considered as a physical change because it produces a new substance. (x)
- 44- Melting and freezing are reversible processes. (✓)
- 45- Water remains liquid between 0°C and 100°C. (✓)
- 46- When hot water vapor hits cooler air it forms steam. (✓)
- 47- Melting of wax produces new substance. (x)
- 48- Digestion of food forms a new substance which has new properties. (✓)
- 49- There is a change in shape when you coil a piece of paper. (✓)
- 50- Rusting of iron doesn't change the structure of iron. (x)

- 51- The mass of some pieces of ice will be the same when they are melted. (√)
- 52- We can use evaporation process to form mixtures. (x)
- 53- The mass of an amount of apple juice will change if we mix it with water. (x)
- 54- The change that is produced as a result of iron rusting is the same change produced from making bread. (√)
- 55- During chemical change, the properties of the matter will be changed. (√)
- 56- By mixing some vegetables together their properties will change. (x)
- 57- You can taste the salt in salty water mixture. (√)
- 58- You can see the different components of the salty water. (x)
- 59- Atmospheric air is considered as a mixture because it consists of liquids and gases matter. (x)
- 60- The mass and properties of oil will change when mixing it with vinegar. (x)
- 61- Salt and pepper mixture is formed from two solid materials mixed together. (√)
- 62- You can separate oil from water by filtration process. (x)
- 63- When dissolving salt in water, the salt disappears forming a new substance. (x)
- 64- Formation of ash during burning of paper is considered as a change which forms a new substance. (√)
- 65- We can separate baking soda from vinegar easily after mixing them together. (x)
- 66- All people around the world can reach fresh water easily. (x)
- 67- Water of oceans and seas is considered as a mixture because it consists of water, minerals and gases. (√)
- 68- Among the problems of desalination process is that it requires a lot of energy and it is very expensive process. (√)
- 69- To get drinkable water from salty water we can use filtration process only. (x)
- 70- Among environmental problems which caused by desalination process is that it is very expensive process. (x)

Correct the underlined words:

- 1- Matter can be found in 2 states. (3 states)
- 2- The state of the air we breathe is solid. (gas)
- 3- Carbon dioxide is a liquid matter. (gas)
- 4- Light and sound are forms of matter. (energy)
- 5- Gases keep their shape and volume whatever the container changes. (Solids)
- 6- On transferring water from one pot to another, its volume will change. (shape)
- 7- To describe the particles of a matter in liquid state by modeling balls, we should put the balls packed together. (solid)
- 8- Regular microscope is used to examine one tiny particle such as a blood cell. (electron microscope)
- 9- We can measure the volume of an amount of oil by using tape measure. (measuring cup)
- 10- The volume of a liquid can be measured in kilogram. (mass)
- 11- The volume of 1000 cubic centimeters of a liquid is equal the same volume of 1 gram. (1 liter)
- 12- Shape is one of chemical properties of matter. (physical)
- 13- The mass of 1 kilogram of apple equals the mass of 100 pieces of paper clip. (1000)
- 14- When particles of matter move quickly they produce more electrical energy. (thermal)
- 15- Blimps are filled with oxygen gas to rise up in the air. (helium)
- 16- Rubber is very hard, so it is used in making athletic shoes. (flexible)
- 17- When particles of a matter absorb thermal energy, they move slower. (lose)
- 18- Freezing of liquid chocolate needs high temperature. (low)
- 19- When we boil water, it will condense. (evaporate)
- 20- When a solid matter gains thermal energy, it will change into gas state. (liquid)

- 21- To change water from solid state to liquid and then to gas state, we need to decrease the temperature. (increase)
- 22- When you strike a match, light energy and electrical energy are produced. (thermal)
- 23- We can separate sand from water by using evaporation process. (filtration)
- 24- The properties of the components of mixture change after mixing them with each other. (compound)
- 25- The substances that form a compound combine physically forming a new substance. (chemically)
- 26- .By adding iodine to starch, the color of the formed compound will change into dark green. (blue)
- 27- .Burning fuel in car is considered as physical change. (chemical)
- 28- .The mass of salt in salty water will be increased after the mixture is formed. (the same)
- 29- .After evaporation of seawater, the water vapor turns into liquid water by heating. (Cooling)
- 30- .Drinking salt water makes the human body dehydrate slower. (faster)

Choose from column (B) what suits it in column (A)

1)

(A)	(B)
1) Carbon dioxide	a) has a definite volume but has not definite shape.
2) Sand	b) take the shape and the volume of their containers.
3) Globe	c) tool used to measure the length of a wall.
4) Gasoline	d) has a fixed shape and volume.
5) Measuring tape	e) A model of the whole world that is made in the shape of a large ball.

1	2	3	4	5
b	d	e	a	c

2)

(A)	(B)
1) Thermometer	a) is used to determine the length of a book.
2) Ruler	b) is used to determine the mass of some apples.
3) Measuring cup	c) is used to determine the temperature of a hot cup of tea.
4) Balance	d) is used to determine the volume of an amount of water

1	2	3	4
c	a	d	b

3)

(A)	(B)
1) Melting	a) is the change of water from liquid state to gas state.
2) Freezing	b) is the change of water from gas state to liquid state.
3) Evaporation	c) is the change of water from solid state to liquid state.
4) Condensation	d) is the change of water from liquid state to solid state.

1	2	3	4
c	d	a	b

4)

(A)	(B)
1) Expected change in color	a) cutting a tomato into small pieces.
2) Formation of strong odor	b) adding drops of food colors to a cup of water.
3) Change in size	c) mixing iodine with cornstarch.
4) Unexpected change in color	d) leaving a cup of milk out of fridge for a long time.

1	2	3	4
b	d	a	c

Cross out the odd words and name the group:

1- Oil – Milk – Water – Wood.

➤ The group: liquids.

2- Plastic – Vinegar – Iron – Aluminium.

➤ The group: solids.

3- Coal - Carbon dioxide – Oxygen – Air.

➤ The group: gases.

4- Wood – Iron – Oxygen – Gold.

➤ The group: solids.

5- Shape – mass – rusting – color.

➤ The group: physical properties.

6- Kilogram (kg) – milliliters (m) – cubic centimeters (cm³) – liters (L).

➤ The group: measuring units of volume.

7- Mass – gram – kilogram – liters.

➤ The group: measuring units of mass.

Give reasons for:

1- Salt is a matter.

➤ Because it has mass and volume.

2- Sugar is a solid matter.

➤ Because it has mass and volume.

3- Wood has definite shape and volume.

➤ Because it is a solid matter.

4- Oxygen has no definite shape or volume.

➤ Because it is a gas matter.

5- Particles of gases can spread out quickly to fill up any container they put in.

➤ Because they are not held together.

6- Both liquids and gases don't have a definite shape and take the shape of their containers.

➤ Because their particles are arranged randomly.

- 7- Oil used in cooking is considered as an example of liquid matter.
 - Because it has a definite volume and its shape is not definite.
- 8- Rubber differs from iron. (According to their hardness).
 - Because rubber is soft matter while iron is hard matter.
- 9- Using models to study some scientific concepts.
 - To study them in an easier way.
- 10- Sometimes we need to use an electron microscope.
 - To see the components of one particle.
- 11- The roof of desert home is made of strong stones.
 - To protect home from dust and dirt.
- 12- The roof of tropical rainforest home is made of leaves and sticks.
 - To protect home from rains and animals getting inside.
- 13- Rains and snow can't enter homes of cold weather regions.
 - Because the roof of home is slanted and made of ceramic tiles.
- 14- Rusting of iron is considered from chemical properties of matter.
 - Because rusting of iron is a change that happens to iron when it interacts with air and water.
- 15- When the particles of a matter move quickly, its temperature increases.
 - Because quickly moving particles produce more heat energy.
- 16- Helium is used to fill balloons and blimps.
 - Because helium gas is lighter than air.
- 17- Human can use helium gas safely.
 - Because helium is not flammable or poisonous.
- 18- Copper is used in making cooking pans.
 - Because it's good conductors of heat.
- 19- Wood and plastic are used in making handles of cooking pans.
 - Because wood and plastic are bad conductors of heat.
- 20- Copper is used in making electrical wires.
 - Because it's good conductors of electricity.
- 21- Steel is used in making hammers.
 - Because it is hard and strong.

22- Glass can be used in making eyeglasses.

➤ **Because it is transparent and smooth.**

23- Ice is turned into water when it is placed in a warm room.

➤ **Because it melts when its temperature increases.**

24- Formation of water drops when water vapor touches a cold surface.

➤ **Because particles of water vapor lose thermal energy and changed into liquid water.**

25- Both melting and freezing processes are considered as physical changes.

➤ **Because the matter changes without any change in its structure and they don't form new matters.**

26- Making bread is considered as a chemical change.

➤ **Because it causes a change in the structure and form new matter.**

27- Fruit salad and salty water are considered as mixtures.

➤ **Because they formed from 2 or more materials that are not combined chemically.**

28- Air is considered as a mixture.

➤ **Because it consists of a mixture of different gases.**

29- Filtration process is used to separate sand from water.

➤ **Because the particles of water are smaller than that of sand.**

30- By adding baking soda to vinegar the properties of each of them are changed.

➤ **Because a new compound is formed.**

31- Formation of a bad odor when milk is left out of the fridge for several days.

➤ **Due to chemical changes that produce new substances.**

32- The components of mixture don't produce a new substance when combining together.

➤ **Because the components combine physically and don't react chemically.**

33- Formation of a layer with reddish color on the surface of a wet iron wire.

➤ **Due to formation of new substance called iron oxide (rust).**

34- We cannot drink the water of oceans and seas.

➤ **Because it is a mixture of water, salts, minerals, gases and living and dead organisms.**

What happens if (to).....:

- 1- We put small amount of milk in the freezer for few hours.
(According to the state of milk)
 - It becomes solid.
- 2- Water is heated in the kettle for few minutes.
(According to the state of water after heating).
 - It becomes a gas.
- 3- We put three equal amounts of water in three different containers.
(According to the shape of water)
 - It will change according to the shape of each container.
- 4- We transfer it from a cup to another cup.
(According to the volume of a coin)
 - It will not change.
- 5- Water changes into ice.
(According to its shape).
 - It will have a definite shape.
- 6- The arrangement of particles of water after its freezing.
 - It will be organized (have a regular pattern).
- 7- A liquid changes into gas.
(According to the speed of particles)
 - It will increase.
- 8- We try to examine the particles of any substance with our naked eyes.
 - Particles cannot be seen.
- 9- The size of a balloon when you blow it up.
 - It will increase.
- 10- The speed of particles of an ice cube when it is exposed to the Sun.
 - It will increase.
- 11- The roof of cold weather homes is flat.
 - The rain will be collected on the top of homes.
- 12- A piece of paper interacts with fire.
 - The paper becomes ash.
- 13- The speed of particles of a matter decreases. (according to its temperature)
 - Its temperature will decrease.

14- A magnet is put close to an iron nail and a plastic spoon.

- **The iron nail will attract to the magnet, while the plastic spoon will not attract to the magnet.**

15- A piece of cork is put in water.

- **It will float on the water surface.**

16- A blimp is filled with helium gas.

- **The blimp will rise up in the air.**

17- Electrical wire is made from plastic instead of copper.

- **It will not conduct electricity.**

18- You touch a handle of cooking pan made of copper and putted on gas oven.

- **I feel hot because copper is good heat conductor.**

19- We heat an amount of water. (according to the motion of particles)

- **The particles of water will move faster.**

20- The particles of water when its temperature is decreased below 0°C.

- **Particles lose more energy and move slower so water changed into ice.**

21- The particles of water when we increase its temperature above 100°C.

- **Particles gain more energy and move faster so water changed into water vapor.**

22- We mix iodine with cornstarch.

- **Dark blue color is produced due to formation of new substance.**

23- Oxygen, carbon and hydrogen are combining together.

- **Produce thermal energy and can start fire.**

24- You expose a shiny piece of metal to air (oxygen) for a long period of time.

- **The metal will lose its shining.**

25- Salty water when heating it for a long time.

- **Water will evaporate leaving the salt.**

26- The mass and properties of sugar when adding it to an amount of flour.

- **They will not change.**

Best Wishes
Dr/ Zeinab Salah

حمل الآن

مجاناً وحصرياً

المراجعة رقم (5)

الترم الاول



Primary 5

Question 1

Choose the correct answer:

1. Among mixtures which are made up of solid materials only is the mixture of
a. salt and water. b. sand and rocks.
c. suagr and water. d. oxygen and helium.
2. Wind play an important role in dispersingseeds.
a. small light b. big heavy c. sticky d. floating
3. Hawk eats a rabbit to get energy, this means that
a. hawk and rabbit are predators. b. the hawk is a predator.
c. the hawk is a prey. d. the rabbit is a predator.
4. We can differentiate between vinegar and perfume by using the sense of.....
a. touch. b. sight. c. smell. d. hearing.
5. If we have 6 gm of water and 6 gm of sugar, after mixing them the mass of whole mixture will be gm.
a. 15 b. 10 c. 12 d. 6
6. All types of plants are similar in all the following, except.....
a. they are eaten by primary consumers.
b. they are able to make photosynthesis process.
c. they live in different types of ecosystems.
d. they can feed on predators.
7. If there are no predators in an ecosystem, the other consumers will
a. not be affected. b. die. c. increase. d. decrease
8. Food web shows interactions between.....
a. few nonliving things b. few living organisms.
c. many nonliving things. d. many living organisms.

9. The..... of iodine will not change after mixing it with starch.	
a. mass only	b. color only
c. color and mass	d. properties and mass
10. The process which happens to all dead organisms is known as..... process.	
a. Photosynthesis	b. decomposition
b. Breathing	d. digestion
11. All the following living organisms are decomposers, except...	
a. fungi.	b. bacteria
c. worms	d. insect
12. If you fold a piece of paper, its will not change.	
a. mass and color	b. color and shape
c. mass and shape	d. color and size
13. Which of the following properties is/are considered as physical properties of matter?	
a. Color only.	b. Shape only.
c. Color and odor only.	d. Color, shape and odor.
14. Which of the following sinks and not attracts to the magnet?	
a. Wood cube.	b. Iron nail.
c. A piece stone.	d. Plastic cup.
15. One kilogram of tomato differs from one kilogram of wood in the	
a. volume only.	b. mass only.
c. volume and mass.	d. color and mass.
16. All the following can help in seed dispersal, except	
a. wind.	b. water.
c. human and animals.	d. soil and sunlight.
17. To change water from solid state to liquid and then to gas state, we need to.....the temperature.	
a. fix	b. increase
c. decrease	d. reduce
18. A compound has all the following properties, except that its components	
a. combine chemically.	b. form new substance.
c. change in their shapes.	d. do not change chemically or physically.

19. The movement of seeds from a place to another is called...

- a. seeds germination.
- b. seeds dispersal
- c. seeds reproduction.
- d. seeds growth

20. The ability of wood to burn is considered as of wood

- a. only physical property
- b. only chemical property
- c. both physical and chemical properties
- d. neither physical nor chemical properties

21. If we cut a tomato into two half, the of one half of tomato will decrease to its half.

- a. color
- b. mass
- c. temperature
- d. shape

22. All the following are physical properties of matter, except

.....

- a. color.
- b. rusting.
- c. texture.
- d. shape.

23. Among examples of physical changes is

- a. melting of iron.
- b. burning of wood.
- c. making a cake.
- d. digestion of food.

24. The physical property of milk through which you can see it, is the of it.

- a. odor
- b. texture
- c. color
- d. taste

25. In, its seed are small dark in the center of flower.

- a. pine tree.
- b. sun flower.
- c. coconut.
- d. potato.

26. All the following sentences are correct about photosynthesis, except

- a. it depends on sunlight.
- b. it produces glucose sugar and carbon dioxide gas.
- c. it produces glucose sugar and oxygen gas.
- d. it occurs in plant leaves.

27. By blowing up a balloon,.....

- a. its volume decrease
- b. its volume increase
- c. its volume doesn't change
- d. its mass decrease

28. The place in which we can take care of small pieces of coral until they grow up is located in

- a. seas. b. air. c. deserts. d. forests.

29. The change that is produced as a result of iron rusting is the same change produced from

- a. melting of ice. b. making bread.
c. cutting a piece of cloth. d. breaking of glass.

30. To reduce pollution, we have to replace white plastic forks with

- a. wooden forks b. black plastic forks.
c. yellow plastic forks d. green plastic forks.

31. When we heat a liquid, the distance between its particles will

- a. decrease. b. increase.
c. not be affected. d. become zero.

32. When ice is kept in a cold temperature, it.....

- a. turns into water. b. turns into steam.
c. remains as it is. d. becomes unclear.

33. The area in which the scientists take care of small pieces of coral until they grow up is known as

- a. food chain. b. food web. c. grassland. d. nursery.

34. Ice changes from solid state to liquid state by increasing its

- a. length. b. mass. c. temperature. d. volume.

35. The two processes which cause particles of matter get close together are

- a. freezing and condensation. b. freezing and melting.
c. freezing and evaporation. d. melting and condensation.

36. When particles of water absorb light energy, they will

- a. move faster. b. vibrate slower.
c. spin lower. d. become close together.

37. In cold weather, drops of water are on the windows of houses.

- a. melted b. evaporated c. condensed d. freezed

38. All the following happen to the particles of oil when it is heated, except that

- a. spin around faster b. move faster.
c. vibrate less. d. vibrate faster

39. Marine food web usually starts with.....

- a. algae. b. clam. c. parrotfish. d. sea star.

40. All the following are liquid used in preparation of food, except...

- a. water. b. vinegar c. oil. d. rice.

41. The model of earth shows how much of its surface covered with.....

- a. animal b. plants. c. water. d. milk.

42. The nutrients that resulted from decomposition and returned to the ecosystem can be used directly by.....

- a. consumers. b. producers. c. predators. d. decomposers.

43. Rubber is used to make all the following, except

- a. athletic shoes. b. gloves. c. tires. d. windows.

44. We can use..... processes to separate fresh drinkable water from the water of seas and oceans

- a. filtration and rusting
b. evaporation and coloring
c. filtration and coloring
d. filtration and evaporation

45. Helium is lighter than air, this property is considered as

- a. a physical property only.
b. a chemical property only.
c. both physical and chemical property.
d. neither physical nor chemical property.

46. To separate sand only from salty water, we can use process.

- a. filtration b. evaporation c. melting d. freezing

47. To separate salt and minerals from seawater, we can use process.

- a. evaporation b. melting c. freezing d. rusting

48. Seabirds build their nests

- a. on the top of mountain cliffs. b. deep down the river.
c. deep down the sea d. on the water surface

49. Desalination process means that we remove from water to drink it.

- a. sugar b. salt c. oxygen gas d. hydrogen gas

50. We can use filtration process to remove all the following from sea water, except.....

- a. seaweed. b. salt. c. shells. d. fish.

51. A snake is a predator for mice, while snake is considered as a prey of.....

- a. rabbit. b. frog. c. hawk. d. deer.

52. Particles of matter are very close to each other and they have less energy.

- a. solids b. liquids c. gases d. a and b

53. Liquids have definite , but their are not definite.

- a. volume-shape b. color-volume
c. shape-volume d. color-shape

54. When you put a lighting match close to helium gas, it will

- a. burn. b. not burn. c. form fire. d. freeze.

55. If we mix two equal masses of salt and oil so, their total mass will after mixing.

- a. equal to zero b. decrease c. increase d. not change

56. By adding baking soda to vinegar, a is formed.

- a. powder b. compound c. mixture d. solid matter

57. Bothand have definite shape and volume.

- a. wood-oxygen b. milk-iron
- c. wood-iron d. milk-oxygen

58. All the following are affected by water pollution, except ...

- a. the soil. b. the Sun. c. the animals d. human

59. Bothand have the same state of matter.

- a. wood-water b. plastic-oil c. water-milk d. wood-vinegar

60. To measure the length of a table, we can use a.....

- a. thermometer. b. cylinder. c. balance scale. d. measuring tape.

61. If the climate changes us suitable, the population of a species.....

- a. will decrease. b. will all die. c. will increase d. will not be affected

62. Blimps are filled with to rise up in the air.

- a. oxygen gas b. carbon dioxide gas
- c. atmospheric air d. helium gas

63. When coral..... the seawater, they may digest microplastics

- a. cool. b. filter c. warm. d. evaporates

64. Corals are negatively affected by.....

- a. rising water temperature only.
- b. ingesting microplastics only.
- c. Both of rising temperature and ingesting microplastics.
- d. neither rising of temperature nor ingesting microplastics.

65. All the following are top predators, except.....

- a. hawks. b. tigers. c. butterflyfish. d. lions.

66. The liquid matter is characterized by all the following, except that

- a. its particles move faster than solid particles.
- b. its particles move slower than gas particles.
- c. its particles are held together more closely than solid particles
- d. its particles can't spread to fill up any container they are put in.

67. To examine the structure of tiny particles of a matter, we can use....

- a. ruler. b. balances. c. thermometers. d. microscopes.

68. By adding iodine to starch, the color of the formed compound will change into

- a. dark blue. b. dark green. c. orange. d. yellow.

69. As a result of coral reefs bleaching, they will be

- a. increased. b. enlarged. c. survived. d. died

70. Coral reefs are considered as resources of

- a. food only. b. shelter only.
c. food and shelter. d. food and pollution.

71. We can identify milk by determining its

- a. color and texture b. shape and odor.
c. color and size. d. color and taste.

72. Physical changes of matter include

- a. melting only. b. freezing only.
c. both melting and freezing. d. neither melting nor freezing.

73. Increasing the temperature of a matter means that its particles

- a. have low energy. b. have high energy.
c. have very low energy. d. don't have energy.

74. We can use copper to make

- a. handles of cooking pans. b. body of cooking pans.
c. gloves. d. tires.

75. Steel is used in making hammers, because it is

- a. flexible. b. smooth. c. hard. d. transparent.

76. When ice cubes gain energy, they turn into water.

- a. sound b. potential c. electrical d. thermal

77. Ice is turned into when its temperature is between 0°C and 100°C.

- a. solid state b. liquid state c. gas state d. water vapor

78. When the temperature of water is decreased below 0°C, it will turn into

- a. water vapor. b. clearwater. c. colored water. d. ice.

79. Glass is transparent, so it can be used in making

- a. eyeglasses. b. tires. c. screwdrivers. d. gloves.

80. Physical processes which need heating include

- a. melting and freezing. b. melting and condensation.
c. melting and evaporation. d. freezing and evaporation.

81. Plastic waste materials cause all the following to the marine environment, except.....

- a. breakdown in food webs. b. pollution of water.
c. increasing of population. d. decreasing of population.

82. Which of the following homes have an inclined roofs ?

- a. Desert homes only.
b. Tropical rainforest homes only.
c. Desert homes and cold weather homes.
d. Tropical rainforest homes and cold weather homes.

83. Coral reefs are

- a. living organisms b. bacteria c. ecosystem d. fungi

84. We can measure of a liquid by using measuring cup.

- a. length b. volume c. mass d. temperature

85. Algae in coral reefs provide food for directly.

- a. primary consumers b. secondary consumers
c. producers d. top predators

Question 2

Choose from (A) what suits it in (B):

1.

(A)	(B)
1. Coral reefs	a. they are marine top predators.
2. Triggerfish	b. they are producers in the marine ecosystem.
3. Algae	c. they are prey for sharks.
	d. they are food resources for parrotfish.

2.

(A)	(B)
1. Photosynthesis process	a) it is a process in which the blood carry oxygen to all body parts.
2. Decomposition process	b) it is a process in which the nutrients are returned to the ecosystem.
3. Respiration process	c) it is a process through which producers can make their own food.

3.

(A)	(B)
1. Expected change in color	a) cutting a tomato into small pieces.
2. Formation of strong odor	b) adding drops of food colors to a cup of water.
3. Change in size	c) mixing iodine with cornstarch.
4. Unexpected change in color	d) leaving a cup of milk out of fridge for time.
	e) mixing salt with water.

4.

(A)	(B)
1. Coconut seeds	a) sticking to animal fur.
2. Maple seeds and	b) floating on water.
3. Burr seeds	c) being eaten by animals.
4. Tomato seeds	d) traveling by wind.
	e) staying inside flowers without movement.

5.

(A)	(B)
1. Carbon dioxide gas	a) without its energy, photosynthesis cannot begin.
2. Oxygen gas	b) it combines with oxygen inside the plant leaves to produce glucose sugar.
3. Water	c) it is produced from photosynthesis process.
4. Sun	d) it is absorbed by plant roots from the soil.
	e) it combines with water inside the plant leaves to produce glucose sugar.

6.

(A)	(B)
1. Condensation	a. is the change of water from solid state to liquid state.
2. Melting	b. is the change of water from gas state to solid state.
3. Freezing	c. is the change of water from gas state to liquid state.
4. Evaporation	d. is the change of water from liquid state to gas state.
	e. is the change of water from liquid state to solid state.

7.

(A)	(B)
1. Thermometer	a. is used to determine the length of a book.
2. Ruler	b. is used to determine the mass of some apples.
3. Measuring cup	c. is used to determine the temperature of a hot cup of tea.
4. Balance	d. is used to determine the volume of an amount of water.
	e. is used to determine the shape of a book.

8.

(A) Matter	(B) It is used to	(C) Because it is
1. Copper	a. make eyeglasses.	A. strong.
2. Helium	b. make tires.	B. good conductor of electricity.
3. Rubber	c. make hammers.	C. transparent.
4. Glass	d. fill balloons.	D. lighter than air.
5. Steel	e. make electrical wires.	E. flexible

9.

(A)	(B)
1. root	a) allow gases to come in and out the plant
2. stem	b) collect sunlight and carbon dioxide to make food
3. leaves	c) tubes that move water and nutrients up to stem
4. Xylem	d) absorb water and nutrients from the soil
5. stomata	e) transport nutrients and water from the root to all plant's parts
	f) absorb oxygen gas from the soil.

Question 3

Put (✓) or (X):

1. Cutting a piece of cloth is considered as a physical change because it produces a new substance.
2. The roof of tropical rainforest home is made up of leaves and sticks.
3. Color of milk is considered as one of its physical properties.
4. To get drinkable water from salty water we can use filtration process only
5. Light and sound are forms of matter.
6. Ability of fuel to burn is considered from chemical properties of fuel.
7. If we put a wooden cube in water, it will float.
8. kilogram of water has a volume equals 1000 milliliters.
9. Handles of cooking pans are made of wood or plastic because they are bad conductors of heat.
10. We can measure the volume of an amount of oil by using tape measure.
11. The properties of mango will be the same if we mix it with banana.
12. Rubber is very hard, so it is used in making athletic shoes.
13. We can separate baking soda from vinegar easily after mixing them together
14. Ice is considered the solid state of matter.
15. When a balloon is filled with helium, it will fall down on the ground.
16. Hammers must be very strong, so they are made of steel.
17. If we cut an apple into 4 pieces, the mass of each piece is less than the mass of whole apple

18. When we put an iron nail in water and then leave it in air, it will rust.
19. By adding iodine to starch, their masses and color will not change.
20. Xylem is important for plants to transfer water from plant's roots to leaves
21. Liquid particles move more free than solid particles.
22. Some particles of matter can be examined by regular microscopes.
23. A tree trunk is a type of runner stems.
24. You can differentiate between the components of salt and flour mixture by using your sight sense only.
25. The plant is fixed in the soil by the help of its roots.
26. Plant's stem has hairs that absorb oxygen gas from the air.
27. Potato plants have tuber stems.
28. The roof of desert home is made up of strong stones to protect it from snow.
29. Iron nail is attracted to the magnet and floats on the surface of water
30. Particles of all matter are in a continuous motion.
31. Matter never changes from one form to another
32. Coral reefs depend on butterflyfish for food and shelter.
33. It is better to recycle the waste materials than throwing them in rivers and seas
34. Volume is the space that is taken up by a matter.
35. Xylem helps the plant to get water from the soil
36. Glass is used in making windows, because glass is a transparent material.

37. Vines have a kind of stems called climb stems.
38. Phloem transports food materials from the leaves to other parts of the plant.
39. The leaves of pine trees are flat and wide.
40. When a solid matter gains thermal energy, it will change into liquid state
41. Froze vegetables have indefinite shape but definite volume.
42. Coral reefs filter the seawater to get their needed food.
43. Algae is a top predator in the marine food chains
44. When ice is heated, it will freeze.
45. Plant's seeds are formed inside the flowers.
46. Seeds germination means the transportation of seeds from one place to another.
47. worms decompose dead plants and animals into nutrients that can be returned to the ecosystem.
48. Water remains liquid between 0°C and 100°C.
49. When hot water vapor hits cooler air it forms steam.
50. It is better to keep natural resources healthy than applying restoration projects.
51. Removing plants negatively affects consumers in an ecosystem.
52. Increasing temperature means that particles of matter have low thermal energy
53. Human could be one of the ways of seed dispersal.
54. Plants cannot make their own food.

- 55.The Sun is the primary source of energy for all organisms on the Earth.
- 56.During photosynthesis process, plant absorbs carbon dioxide gas from air through stomata
- 57.Photosynthesis process produces carbon dioxide gas that helps animals and humans to breathe.
- 58.Light is important for plant growth.
- 59.Dandelion seeds have spines, so they stick to animal fur
- 60.Glucose is a type of sugar that produced from plants during photosynthesis process.
- 61.There is no energy flow between living organisms that live in seas and oceans.
- 62.We can live without sunlight
- 63.Any animal that is hunted and eaten by another animal is called predator.
- 64.In any food chain, the plant is considered as a prey.
- 65.The energy from the Sun passes to the mouse directly.
- 66.Some producers can live in hot sunny weather, but they cannot live in a completely dark room.
- 67.The first link in any food chain is a consumer.
- 68.Recycling nutrients back to the ecosystem is the main function of the consumers.

69.The predator is a consumer that eats another animal.

70.Hawks, plants and sharks are predators.

71.Human can eat plants and animals.

72. Melting and freezing are reversible processes.

73.Nutrients that present in living organisms bodies returned to the ecosystem after death.

74.Both of fungi and birds are decomposers.

75.Producers form their own food, while decomposers return nutrients back to the ecosystem.

Question 4

Write the scientific term:

1. The properties of matter which you can observe by using your five senses.
2. The ability of materials to transfer heat and conduct electricity.
3. A material that is used to build the roofs of cold weather homes.
4. The process of removing salt from salty water
5. The process which can be used to remove any large materials from sea and ocean water.
6. They are organisms that are too small to see with our eyes
7. It is a measure of how quickly the particles in a matter are moving.
8. The process which can be used to separate salt and minerals from salt water of seas and oceans.
9. A matter that is formed when two or more materials combine chemically.

10. It is the process by which the particles of matter gain energy and changes from solid state to liquid state.
11. It is a light gas which is used in filling balloons and blimps.
12. The property of matter which is measured by a tape measure.
13. A matter which is used in making gloves because it is waterproof and flexible.
14. Flying living organisms that build their nests on the top of mountain cliffs and dive deeply into the sea to eat
15. They are consumers that exist at the top of food chain
16. It is the substance that consists of more than one matter and don't have any chemical change in their properties.
17. The property of matter which is measured by a balance.
18. It is the harms that happen to air, water and soil due to human activities.
19. It is an area in the sea, where scientists take care of small pieces of coral until they grow up.
20. It transfers between animals in a food web, to help them do their activities and survive
21. A state of matter that has a fixed shape
22. It is the number of organisms of one type of living in an area
23. It is the amount of space that matter takes up.
24. It is a condition in which coral reefs turn completely into white.
25. A system of tubes through which water, nutrients and plant food are carried all over the plant.

26. State of matter that its particles move faster than solids and have a definite volume.
27. A device used to examine objects that are too small to be seen with the naked eye
28. It is a process of returning a habitat back to its natural state before harm was done
29. The state of matter that has a lot of spaces between its particles.
30. The tool used to measure the temperature
31. A material that is used to build the roofs of desert homes.
32. The source of energy that the plant use to make photosynthesis.
33. The kind of plant's stem in vines
34. The stems that are extended above and along the ground.
35. A part of the plant that fix it in the soil
36. A group of living organisms that can produce their own food.
37. It is a model that shows one linear set of feeding relationships and energy flow between living organisms.
38. The gas that the plant needs to make photosynthesis process.
39. Vessels move glucose from the leaves to other parts of the plant.
40. Blood vessels carry blood from the heart to all the body parts.
41. A substance that is produced from the plant during photosynthesis process and provides it with its needed energy.
42. It pumps the blood to all the body parts and receives it again.

- | |
|--|
| 43. Tiny blood vessels that connect arteries to veins. |
| 44. Parts of the plant that are responsible for reproduction. |
| 45. The human body system that consists of heart and blood vessels |
| 46. A plant that has a tuber stem. |
| 47. The process of producing new plants. |
| 48. A liquid substance that plants, animals and human need to survive |
| 49. It is found in plant's leaves that gives them green color and absorbs energy from the sunlight. |
| 50. Smaller vessels that transport water and nutrients from the plant roots up through the stem to its leaves and flowers. |
| 51. A part of the plant that carries water and nutrients from the roots to the leaves. |
| 52. The consumer that hunts and eats another animal. |
| 53. They are scientists who study plants and get to do their researches in natural areas |
| 54. Blood vessels carry blood from the body parts and return it back to the heart. |

Question 5

Complete the following sentences:

- | |
|---|
| 1. To separate mud from salty water we can use..... process. |
| 2. The process by which a matter is changed from solid state to liquid state is known as process. |
| 3. Cutting a paper into pieces is considered..... change, while burning it is considered as..... change |
| 4. The of your school bag can be determined by a balance. |
| 5. The distance between particles of solid matter is very |

6. When an amount of a liquid is heated, the speed of its particles will
7. The form of energy which is used in cooking food and warming homes is
8. When we heat ice cream, it and becomes liquid.
9. We cannot make a food web, if we don't know the types of..... that the animals eat.
10. Heavy rain causes.....which destroys desert ecosystems.
11. A spoon of wood to the magnet and on the surface of water.
12. In the earth's polar zone, people use in building their home roofs to protect them from.....
13. is a waterproof material, we can use it in making gloves.
14. Iron rusting is a change, while iron painting is a change.
15. Glass is used in making windows and eyeglasses, because glass is.....and.....
16. The state of an ice cube is , while the state of the air we breathe is
17. You can use a to measure the length of matter, while youto measure its temperature.
18. An iron nail in water, and to the magnet.
19. Small fish feed on that float on the surface of the sea.
20. A predator get.....from the prey which feeds on
21. To separate salt from salty water we can use process
22. The body of cooking pans can be made of..... , while its handles is made is made of or plastic.
23. All energy in all living organisms return back to the environment by the help of..... organisms.

24. Particles of liquid matter can move more faster than..... matter and more slower than..... matter
25. Changing the color of iodine and starch mixture is change, while changing the color of water and food color mixture is achange
26. Plants produce.....and during photosynthesis process.
27. In a food chain, the energy flows from.....consumer to a secondary consumer.
28. Worms and bacteria are two types of.....
29. The interaction among many food chains is known as
30. Water can change from the liquid state to state by increasing its temperature.
31. When a chocolate cube is exposed to sun rays, its temperature willand it will become liquid.
32. Making yoghurt from milk is a change.
33. The presence of in plant's roots help it to absorb more and nutrients from the soil
34. There are many kinds of stems on plants like in vines and..... in potato
35. Shrubs have..... stems , while most flowers have.....stem.
36. 0°C is the freezing point of
37. The green color of plant's leaves is due to the presence of
38. By decreasing the temperature of water vapor, it releases energy and changes into water.

39. Air enters plants through on their leaves.
40. Human circulatory system consists of.....and.....
41. Arteries carry blood rich in and oxygen from the heart to all body parts.
42. The plant makes sugar in itsduring photosynthesis process.
43. Transport system in the plant consists of two types of vessels which are.....and
44. Arteries carry oxygen and nutrients from the.....to all body parts, while.....in plant's stem carry water from theto the leaves.
45. In plant's leaves, energy is converted into energy during photosynthesis process.
46. The movement of particles of matter increases in case ofand..... processes.
47. Heart consist of chambers, which are two.....and two.....
48. are tiny blood vessels connect between arteries and veins

Question 6

Study the following figure then complete the sentences below:



a.

Study the opposite figure, then choose the correct answer

If the number of snakes increases suddenly,

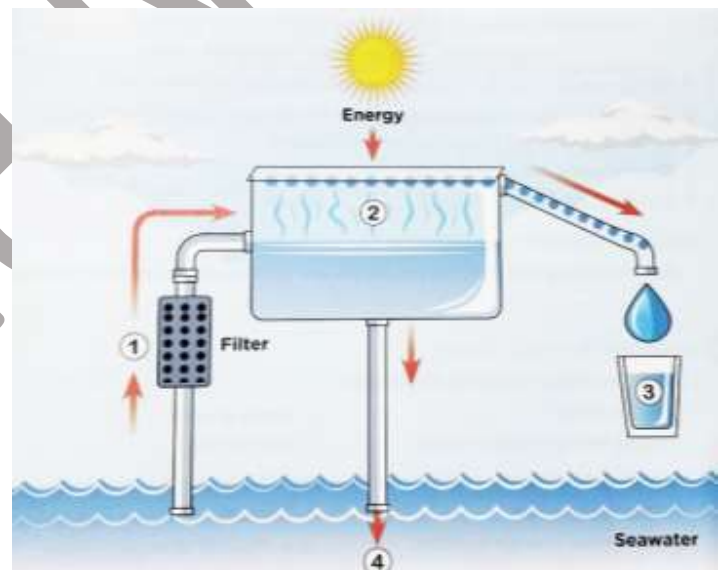
- a. the number of frogs increases and the number of hawks decreases.
- b. the number of frogs decreases and the number of grasshopper increases.
- c. the number of hawks decreases and the amount of grass increases.
- d. the number of grasshopper increases and the number of hawks decreases.

b. Put letter (P) in front of physical properties and letter (C) in front of chemical properties of the different materials below :

1. The white color of milk. (.....)
2. The ash produced from burning a paper. (.....)
3. The large crystals of salt particles. (.....)
4. The odor of perfume. (.....)
5. The rusting of a piece of iron. (.....)
6. The sweet taste of sugar. (.....)
7. The round shape of a ball. (.....)

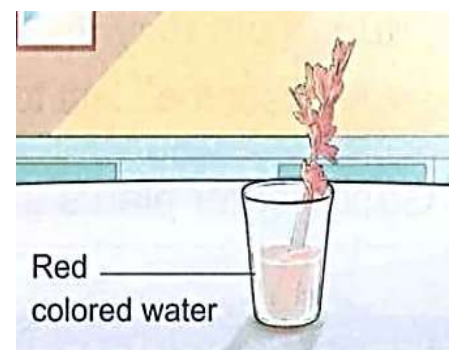
c. Study the opposite figure, then choose the correct answer

1. The number which represents filtration process is.....(1-2-3-4)
2. The number which represents the water that contains very big amount of salt and minerals is.....
(1-2-3-4)
3. The number which represents evaporation process is.....
(1-2-3-4)
4. The number which represents the drinkable water is(1-2-3-4)



d.

1. The color of leaves of celery will be
2. Water is transported through that connect the stem to the leaves.



e.

1. The opposite figure represent human system

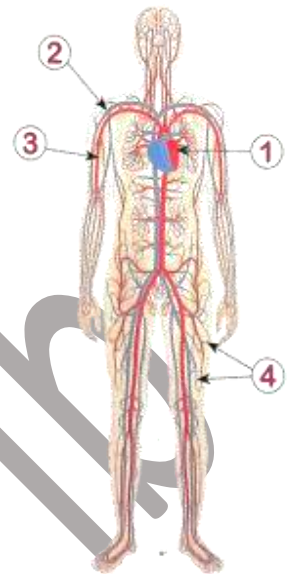
2. Label The figure

1.

2.

3.

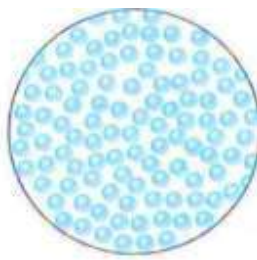
4.



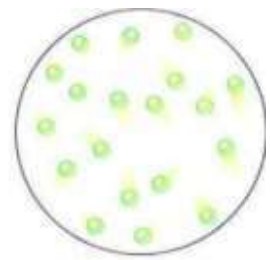
f. The following figures represent particles of three states of matter, then put (✓) or (x)



(1)



(2)



(3)

1. Figure (1) represents solid matter.

2. Figure (2) represents liquid matter.

3. By increasing the spaces between the particles of figure (2), this matter may change into solid state.

4. Particles of figure (1) have more energy than particles of figure (3).

g. Choose the suitable tool to measure some things found at your classroom (you can choose the same tool more than once) :



Tool (A)



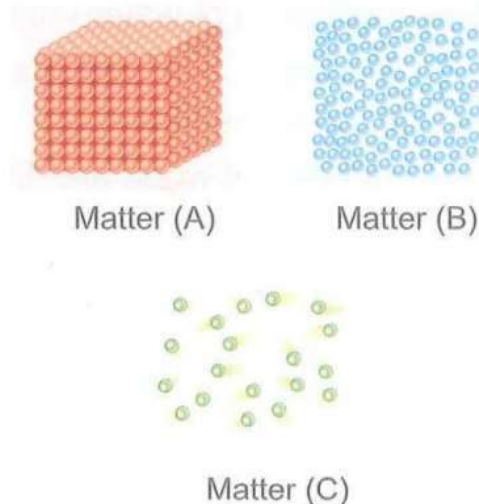
Tool (B)



Tool (C)

1. You can measure the height of your chair by using tool (.....)
2. You can measure the mass of your copybook by using tool (.....)
3. You can measure the volume of the water that is found in your bottle by using tool (.....)
4. You can measure the length of your pencil case by using tool (.....)

h. the opposite figures that represent the three states of matter, complete the following sentences:

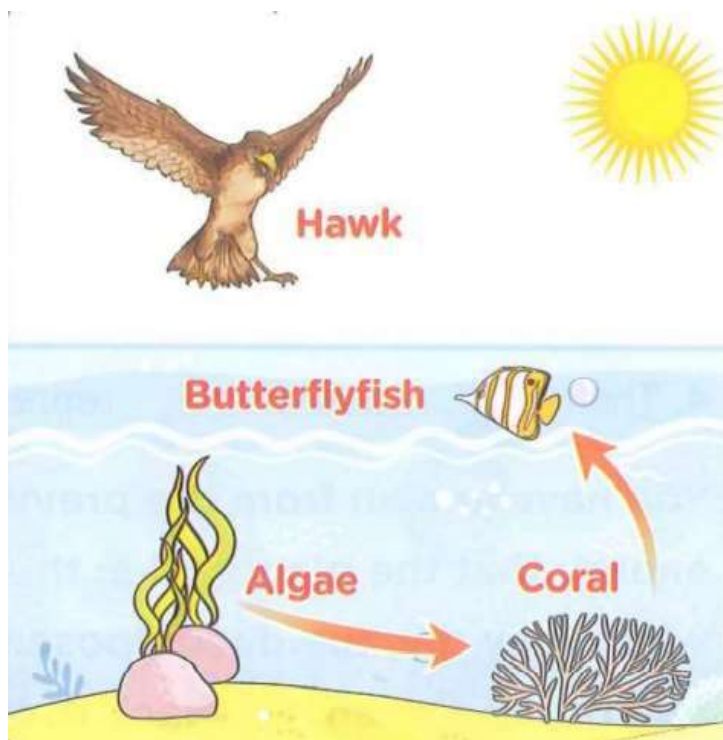


1. Matter in figure takes the shape of its container but its volume doesn't change.
2. Particles of figure move faster than that of figure and figure
3. Particles of figure are not held together.

i. What is happening on land affects what is happening in the marine environment" According to the previous fact, study the following figure then

Complete the sentences below

1. The living organism that can make photosynthesis process is
2. Energy can flow from marine environment to land, when the hawk eats
3. If many sharks are present in this ecosystem, will moved to another ecosystem to search for food.



Question 7

Give reasons for:

1. Animals eat different types of food.

To get energy as they cannot produce their own food.

2. Human needs to eat some animals and plants.

To get his needed energy to do his activities.

3. Sunlight is important for all living organisms.

Because it is absorbed by the plants leaves to make their own food and grow, then humans and animals eat these plants.

4. Consumers depend on producers to get their energy.

Because consumers cannot make their own food.

5. Soil fertility depends on decomposers.

Because decomposers return nutrients of dead organisms back to the soil.

6. Sticky seeds of some plants can stick to human clothes or an animal's body.

To disperse their seeds to other places.

7. When the number of one species of consumers in an ecosystem increases, they will die.

Because they will not find enough food to eat.

8. Death of algae may lead to moving sharks away to another places.

Because sharks feed on different fish that depend on algae to get their food.

9. Change in the population of one species affects the population of other species.

Because in the ecosystem, all species depend on other species to survive, so an increase or decrease in one species affects the population of other species

10. Coral bleaching happens when the water temperature rises.

Because when the water temperature rises the coral reefs get rid of algae from their tissues and turn completely into white causing coral bleaching.

11. Plastics are very harmful to marine organisms.

Because plastics are toxic and sharp.

12. When we remove plants from riverbanks, the floods become more dangerous.

Due to eroding of riverbanks.

13. Salt is a matter.

Because it has mass and volume.

14. Sugar is a solid matter.

Because it has definite shape and volume.

15. Wood has definite shape and volume.

Because it is a solid matter.

16. Oxygen has no definite shape or volume.

Because it is a gas matter.

17. Particles of a piece of iron are very close to each other.

Because it is a solid matter.

18. Water has different shapes when it is placed in some containers that have different shapes.

Because it has no definite shape and takes the shape of its container.

19. Using models to study some scientific concepts.

To study them in an easier way.

20. Sometimes we need to use an electron microscope.

To see each tiny particle as it is more powerful than normal microscope.

21. Particles of gases can spread out quickly to fill up any container they are put in.

Because they are not held together.

22. Liquids take the shape of their containers.

Because their particles can slide over each other.

23. Scientists make model of germs.

To see the shape and parts of germs without microscope.

24. Oil used in cooking is considered as an example of liquid matter.

Because it has no definite shape and definite volume.

25. The roof of desert home is made of strong stones.

To protect the desert home from dust and dirt.

26. The roof of tropical rainforest home is made of leaves and sticks.

To protect the tropical rainforest home from animals getting inside.

27. You can use the sense of sight only to differentiate between salt and pepper.

Because both of salt and pepper have different colors.

28. Rusting of iron is considered from chemical properties of matter.

Because rusting of iron is a change that happens to iron when it interacts with air and water.

29. When the particles of a matter move quickly, its temperature increases.

Because quickly moving particles produce more heat energy which cause increasing in temperature.

30. Helium is used to fill balloons and blimps.

Because helium is lighter than air.

31. Human can use helium gas safely.

Because helium is not flammable or poisonous.

32. Wood and plastic are used in making handles of cooking pans.

Because wood and plastic are bad conductors of heat.

33. When the temperature of ice cubes increases, they will melt.

Because ice cubes will gain thermal energy, so it changes to liquid water.

34. Both melting and freezing processes are considered as physical changes.

Because in these processes the matter changes without any change in its structure.

35. Formation of water drops when water vapor touches a cold surface.

Because water vapor loses thermal energy to the cold surface, so the particles of water vapor move slower and get close together forming water drops.

36. Fruit salad and salty water are considered as mixtures.

Because they are formed of two or more materials.

37. Filtration process is used to separate soil from water

Because the particles of water are smaller than that of soil.

38. By adding baking soda to vinegar the properties of each of them are changed.

Because mixing baking soda with vinegar produces gas causing bubbles which means that the properties of the substances are changed.

39. Making bread is considered as a chemical change.

Because the taste of bread is not like its ingredient which means that a new substance is formed.

40. Formation of a layer with reddish color on the surface of a wet iron wire after a period of time.

Because when iron reacts with oxygen and water, it rusts (from a chemical substance called iron oxide).

41. Formation of a bad odor when milk is left out of the fridge for several days.

Due to the chemical change that happens to the milk.

42. Making fruit salad is considered as a physical change.

Because maxing fruit salad doesn't form a new substance.

43. We cannot drink the water of oceans and seas.

Because it is a mixture of water, salt, other minerals, gases, living organisms and dead organisms

Question 8

What happen if:

1.Plants have no stems.

Water and nutrients will not be carried from the roots to the leaves.

2.Plants can't get carbon dioxide gas from air.

Plants can't make their own food during photosynthesis process.

3.We put a green plant in a dark room for many days.

Plant's leaves will be yellow and can't make photosynthesis process

4.We put a seed of bean in wet soil for many days.

It will germinate and grow well.

5.A plant is placed in a dark place for many days.

The plant can't make photosynthesis process and it will die.

6.The plant doesn't have roots.

The plant can't absorb water and nutrients from the soil and also c in the soil.

7.The plant stop making photosynthesis process for several day

It can't make its own food and it will die.

8.12. We remove the flowers of a plant.

The plant can't produce seeds that help it to reproduce.

9.If a hawk is placed in an ecosystem that doesn't contain any living organisms except plants.

The hawk moves away to search for food in another ecosystem.

10.If there is no sunlight reaches the Earth's surface.

The plants cannot make their own food by photosynthesis process, so there will be no life on Earth.

11.If all primary consumers disappear from a certain food chain.

The secondary consumers will move away to another place to search for food or they will die.

12.If all types of decomposers are absent from an ecosystem.

Dead organisms will not be decomposed and their nutrients will not return back to the soil.

13.If the number of secondary consumers in an ecosystem decreases

The number of primary consumers increases and the amount of producers decreases.

14.If the climate change is unsuitable for a population of one type of species.

The population of this species will decrease.

15.If the seawater becomes warm.

The microorganisms will move away to a cooler water and also fish that feed on microorganisms.

16.To the speed of particles of an ice cube when it is exposed to the Sun.

It will increase.

17.To the size of a balloon when you blow it up.

It will increase.

18.To the speed of particles of liquid when it changes into gas.

It will increase.

19.To the arrangement of particles of water after its freezing.

It will be organized.

20.If the roofs of cold weather homes is flat.

The rain will be collected on the top of cold weather homes.

21.To a piece of paper if it interacts with fire.

The paper becomes ash.

22.To the temperature of a matter if the speed of its particles decreases.

The temperature of the matter will decrease.

23.To an iron nail and a plastic spoon if they are put close to a magnet.

The iron nail will attract to the magnet, while the plastic spoon will not attract the magnet.

24.To the particles of water when its temperature is decreased below 0°C.

The particles of water release thermal energy and they move slower and get close together forming solid ice.

25.To the particles of water when we increase its temperature above 100°C.

The particles of water gain more thermal energy and they move faster and spread more forming water vapor.

26.To salty water when heating it for a long time.

The water will evaporate leaving the salt in the container.

27.To the mass and properties of sugar when adding it to an amount of flour.

The mass and properties of sugar will not change.

28.If oxygen, carbon and hydrogen are combining together.

They release heat that can start a fire.

29.If you expose a shiny piece of metal to air (oxygen) for a long period of time.

The piece of metal will lose it's shining.

30.If you boil an amount of seawater for a long time.

Water vapor rises up leaving salts and other minerals.

Answers

Question 1

Choose:

1) b	2) a	3) b	4) c	5) c	6) d	7) c	8) d	9) a	10) b
11) d	12) a	13) d	14) c	15) a	16) d	17) b	18) d	19) b	20) b
21) b	22) b	23) a	24) c	25) b	26) b	27) b	28) a	29) b	30) a
31) b	32) c	33) d	34) c	35) a	36) a	37) c	38) c	39) a	40) d
41) c	42) b	43) d	44) d	45) a	46) a	47) a	48) a	49) b	50) b
51) c	52) a	53) a	54) b	55) c	56) b	57) c	58) b	59) c	60) d
61) c	62) d	63) b	64) c	65) c	66) c	67) d	68) a	69) d	70) c
71) d	72) c	73) b	74) b	75) c	76) d	77) b	78) d	79) a	80) c
81) c	82) d	83) c	84) b	85) a					

Question 2

Choose from (A) what suits it in (B):

1. 1. d	2. c	3. b		
2. 1. c	2. b	3. a		
3. 1. b	2. d	3. a	4. c	
4. 1. b	2. d	3. a	4. c	
5. 1. e	2. c	3. a	4. a	
6. 1. c	2. a	3. e	4. d	
7. 1. c	2. a	3. d	4. b	
8. 1. e. B	2. d. D	3. b. E	4. a. C	5. c. A
9. 1. d	2. e	3. b	4. c	5. a

Question 3

Put (✓) or (X)

1. X	11. ✓	21. ✓	31. X	41. X	51. ✓	61. X	71. ✓
2. ✓	12. X	22. ✓	32. X	42. ✓	52. X	62. X	72. ✓
3. ✓	13. X	23. X	33. ✓	43. X	53. ✓	63. X	73. ✓
4. X	14. ✓	24. X	34. ✓	44. X	54. X	64. X	74. X
5. X	15. X	25. ✓	35. X	45. ✓	55. ✓	65. X	75. ✓
6. ✓	16. ✓	26. X	36. ✓	46. X	56. ✓	66. ✓	
7. ✓	17. ✓	27. ✓	37. ✓	47. ✓	57. X	67. X	
8. ✓	18. ✓	28. X	38. ✓	48. ✓	58. ✓	68. X	
9. ✓	19. X	29. X	39. X	49. ✓	59. X	69. ✓	
10. X	20. ✓	30. ✓	40. ✓	50. ✓	60. ✓	70. X	

Question 4

Write the scientific term:

- | | | |
|------------------------|--|-------------------------------|
| 1. Physical properties | 20. Energy | 37. Food chain |
| 2. Conduction | 21. Solid | 38. Carbon dioxide gas |
| 3. Ceramic bricks | 22. Population | 39. Phloem |
| 4. Desalination | 23. Volume | 40. Arteries |
| 5. Filtration | 24. Coral bleaching | 41. Glucose sugar |
| 6. Microorganisms | 25. Liquid | 42. Heart |
| 7. Temperature | 26. Plant transport system / plant vascular system | 43. Blood capillaries |
| 8. Evaporation | 27. Microscope | 44. Flower |
| 9. Compound | 28. Habitat restoration | 45. Circulatory system |
| 10. Melting process | 29. Gas | 46. Potato |
| 11. Helium | 30. Thermometer | 47. Reproduction |
| 12. Length | 31. Strong stone | 48. Water |
| 13. Rubber | 32. Sun | 49. Chlorophyll |
| 14. Seabirds | 33. Climb stem | 50. Xylem |
| 15. Top predators | 34. Runner stem | 51. Stem |
| 16. Mixture | 35. Root | 52. Predator |
| 17. Mass | 36. Producers | 53. Plant community ecologist |
| 18. Pollution | | 54. Veins |
| 19. Nursery | | |

Question 5

Complete the following sentences:

- | | |
|------------------------|-------------------------------|
| 1. Filtration | 11. Don't attract – float |
| 2. Melting | 12. Ceramic tiles - rains |
| 3. Physical – chemical | 13. Rubber |
| 4. Mass | 14. Chemical – physical |
| 5. Small | 15. Smooth – transparent |
| 6. Increases | 16. SOLID -gas |
| 7. Thermal / heat | 17. Ruler/ tape – thermometer |
| 8. Melts | 18. Sink – attracted |
| 9. FOOD | 19. Microorganisms |
| 10. flooding | 20. Energy |

21. evaporation
22. copper – wood
23. decomposers
24. solid -liquid
25. chemical – physical
26. food – oxygen
27. primary
28. decomposers
29. food web
30. gas
31. increase
32. chemical
33. hair roots
34. climb – tuber
35. wood – upright
36. water
37. chlorophyll
38. thermal
39. stomata
40. heart – blood vessels
41. nutrients
42. leaves
43. phloem -xylem
44. heart – xylem – root
45. light – chemical
46. melting – evaporation
47. four – atrium- ventricle
48. blood capillaries

Question 6

Study the following figure then complete the sentences below:

a. b

b. 1. P 2.C 3. P 4. P 5. C 6. P 7. P

c. 1. 1 2. 4 3. 2 4. 3

d. 1. red 2. xylem

e. 1. Circulatory system

2. 1. Heart 2. Vein 3. Artery 4. Blood vessels

f. 1. ✓ 2. ✓ 3. X 4. X

g. 1. A (ruler) 2. C (balance)

3. B (measuring cup) 4. A (ruler)

h. 1. B 2. C- A-B 3. C

i. 1. algae 2. Butterflyfish 3. hawk

حمل الآن

مجانا وحصريا

المراجعة رقم (6)

الترم الاول





Final Revision

✱ (1) Write the scientific term:

Mr. Ahmed Elbasha

- 1) The animal that is eaten by another animal. (.....)
- 2) The liquid substance that plants, animals and human need to survive (.....)
- 3) part of the plant that anchors it in the soil. (.....)
- 4) It is a process by which a matter is changed from solid state to liquid state. (.....)
- 5) The property of matter which is measured by the measuring cup. (.....)
- 6) A model of the whole world that is made in the shape of a large ball (.....)
- 7) The process of producing new plants. (.....)
- 8) A group of living organisms that can produce their own food (.....)
- 9) Flying living organisms that build their nests on the top of mountain cliffs and dive deeply into the sea to eat. (.....)
- 10) The state of matter that has definite volume and shape (.....)
- 11) They are changes in matter which are usually reversible and don't affect its structure. (.....)
- 12) It is the process by which matter changes from liquid state to gas state. (.....)
- 13) A tool used to measure the length of wall. (.....)
- 14) They are consumers that exist at the top of food chains. (.....)
- 15) A human activity that leads to decreasing the number of fish and affecting many marine food webs (.....)
- 16) The gas that is produced from photosynthesis process. (.....)

- 17) A device used to examine one tiny particle such as a blood cell (.....)
-
- 18) The state of water when its temperature is located between 0°C and 100°C . (.....)
-
- 19) The process by which the plant can make its own food. (.....)
-
- 20) Parts of the plant that are responsible for reproduction. (.....)
-
- 21) They are organisms that break down dead organisms bodies. (.....)
-
- 22) It is the amount of space that matter takes up. (.....)
-
- 23) The non poisonous gas that is used in filling balloons (.....)
-
- 24) Tiny openings on the surface of plant's leaves that allow gases move into and out of the plant (.....)
-
- 25) The gas that the plant needs to make photosynthesis process (.....)
-
- 26) It is the final link in a food chain. (.....)
-
- 27) They are the reproductive parts of plant (.....)
-
- 28) They're narrow holes spread on the plant's leaves that allow gases to come in and out of the plant. (.....)
-
- 29) The system that transports blood throughout the human body (.....)
-
- 30) Blood vessels carry oxygenated blood from the heart to all body parts (.....)
-
- 31) They are tubes in the plant that transport food materials from they leaves to all plant parts. (.....)
-
- 32) The vessels .in a plant through which water anti nutrients move up from the roots to the leaves. (.....)
-
- 33) The primary source of energy for all organisms on Earth (.....)
-
- 34) The process by which plants make their own food using the energy of sunlight (.....)
-
- 35) It's a natural process through which the nutrients found in dead organisms' bodies return to the ecos (.....)
-

- 36) They are consumers that feed on primary consumers (.....)
-
- 37) It's a group of interconnected food- chains. (.....)
-
- 38) They're living organisms that recycle the energy into the ecosystem (.....)
-
- 39) It's the state of water after its freezing. (.....)
-
- 40) It's the state of matter that has a fixed shape and volume (.....)
-
- 41) It's the state of matter that has no definite shape or volume (.....)
-
- 42) It's a state of matter that can be poured in a container and takes its shape (.....)
-
- 43) It's the state of matter in which the particles have a lot of energy and move very freely (.....)
-
- 44) It's a tool that is used to measure the length of a wall or room. (.....)
-
- 45) They are the building units of matter. (.....)
-
- 46) It is a measurement of the amount of matter. (.....)
-
- 47) It's a process in which ice changes into water (.....)
-
- 48) It's a process in which water changes into ice. (.....)
-
- 49) It is a copy that is similar to the real thing . (.....)
-
- 50) It is the amount of space that the matter takes up. (.....)
-
- 51) It's matter that is used to make electric wires and cooking ppns (.....)
-
- 52) It's a hard and strong matter that 1s used to make hammers and screwdrivers. (.....)
-
- 53) It's a transparent and smooth matter that is used to make eyeglasses and windows (.....)
-
- 54) It's a flexible waterproof matter that is used .to make tires and gloves (.....)
-
- 55) It is a change in matter with a change in its structure producing a new substance (.....)

- 56) It is the process by which matter changes from a gaseous state to a liquid state. (.....)
-
- 57) It is anything that takes up space and has mass. (.....)
-
- 58) It's the formation of a flaky reddish layer of iron oxide occurs when iron reacts with oxygen (.....)
-
- 59) A part of plants that is responsible for reproduction. (.....)
-
- 60) They are materials that have definite volume, and they take the shape of the container. (.....)
-
- 61) It's the state of water after its freezing (.....)
-

***(2) Choose the right answer:**

1. Plants take from the air to make its own food.

- a. water b. oxygen gas c. carbon dioxide gas d. sugar

2. A community that includes living organisms and nonliving things is known as

- a. digestive system. b. respiratory system.
c. ecosystem. d. vascular system.

3. When the marine habitats are destroyed, the number of living organisms in their food webs is

- a. increased. b. decreased. c. not changed. d. doubled.

4. Some liquids come out from a during its eruption.

- a. star b. wooden piece c. volcano d. plastic piece

5. When the plant seed begins to grow and makes sprouts, this process is called

- a. respiration. b. germination. c. absorption.

6. Decomposers always the soil.

- a. pollute b. damage c. benefit d. harm

7. The marine food web usually starts with

- a. clam. b. algae. c. zooplankton. d. parrotfish.

8. The volume of one liter of water has a mass of

- a. one gram. b. one kilogram.
c. one milliliter. d. one cubic centimeter.

9. When the water is heated, its particles

- a. move slower. b. move faster.
c. move with the same speed. d. do not move.

10. Salt can be separated by of salty water.

- a. melting b. evaporation c. freezing d. condensation.

11. In plant's leaves, light energy of the Sun is converted into energy during photosynthesis process.

- a. sound b. electric c. chemical d. kinetic

12. Which of the following matter has a definite volume and shape ?

- a. Water. b. Milk. c. Ice. d. Air.

13. In the presence of water, seeds can germinate at the beginning of growth without the need of

- a. soil. b. rocks. c. insects. d. dry paper towel.

14. Which of the following living organisms can make their own food ?

- a. Hawks. b. Mice. c. Pine trees. d. Caracals.

15. If all grasses were removed completely from an ecosystem, rabbits in this ecosystem will

- a. increase. b. decrease. c. die. d. not be affected.

16. A snake is a predator for mice, while snake is considered as a prey for

- a. rabbit. b. frog. c. eagle. d. deer.

17. Oil takes the of its container.

- a. volume b. shape c. color d. mass

18. Condensation changes the matter from state to state.

- a. solid - liquid b. liquid - gas c. gas - liquid d. liquid - solid

19. The green plants can make their own food through

- a. roots. b. leaves. c. stems. d. flowers.

20. Any food chain starts with

- a. insects. b. plants. c. fungi. d. bacteria.

21. If the climate change is suitable, the population of a species will

- a. increase. b. decrease. c. die. d. not be affected.

22. We can measure the volume of a liquid by all the following units except

- a. kilogram. b. milliliters.
c. cubic centimeters. d. liters.

23. The kind of stems that extend underground are called stems.

- a. climb b. tuber c. runner d. wood

24. Many insects are considered as

- a. producers. b. decomposers.
c. primary consumers. d. secondary consumers

25. We can measure the mass of a cube of ice by using a

- a. thermometer. b. ruler.
c. measuring tape. d. balance.

26. We can identify milk by determining its

- a. color and texture.
- b. shape and odor.
- c. color and taste.
- d. color and size.

27. To separate sand only from salty water, we can use process.

- a. filtration
- b. evaporation
- c. melting
- d. freezing

28. Blood rich in carbon dioxide gas returns back to the heart through

- a. arteries.
- b. veins.
- c. lungs.
- d. xylem.

29. The measuring unit of volume

- a. cm.
- b. cm³
- c. Kg.
- d. gram.

30. Particles of are very close to each other.

- a. glass
- b. air
- c. oxygen
- d. water

31. If the amount of grass increases on ecosystem, this directly increases number of

- a. hawks.
- b. lions.
- c. caracals.
- d. rabbits.

32. Plants need and from the air that help them make photosynthesis process.

- a. sunlight - carbon dioxide
- b. sunlight - oxygen
- c. oxygen - nutrients
- d. oxygen – water

33. Steel is used in making hammers because it is

- a. flexible.
- b. transparent.
- c. hard.

34. Ice can turn into water by

- a. heating.
- b. rusting.
- c. freezing.

35. Among examples of physical changes is

- a. burning of wood.
- b. rusting of iron.
- c. cutting a paper

36. To examine the structure of tiny particles of a matter, we can use

- a. thermometer.
- b. balance.
- c. ruler.
- d. microscope.

37. Maple seeds travel by wind, because they are seeds.

- a. light
- b. spiny
- c. heavy
- d. smooth

38. Particles of are very close to each other.

- a. milk
- b. steam
- c. gold
- d. oxygen

39. Flowers produce for reproduction.

- a. leaves
- b. stems
- c. seeds
- d. roots

40. The used material in making the body of cooking pans is

- a. copper. b. glass. c. wood. d. helium.

41. To separate sand from water, we can use process.

- a. filtration b. evaporation c. melting d. freezing

42. Living organisms that decay dead organisms are called

- a. producers. b. primary consumers. c. decomposers. d. preys.

43. Plants use during photosynthesis process.

- a. nitrogen b. oxygen c. carbon dioxide d. sugar

44. Water takes the of its container.

- a. mass b. shape c. color d. volume

45. Any food chain starts with

- a. consumer. b. producer. c. fungi. d. decomposers.

46. are pores on the surface of plant's leaves that allow gases to move into and out of the plant.

- a. Stomata b. Xylem c. Phloem d. Hairs

47. The suitable habitat for microorganisms to survive is

- a. hot water. b. warm water. c. cold water. d. boiled water.

48. An example of a gas is

- a. chocolate b. rock. c. pencil d. oxygen.

49. Food moves from the leaves to the other parts of the plant through tubes.

- a. stomata b. roots. c. phloem d. xylem

50. The final link in any food chain is the

- a. consumer. b. producer. c. decomposer. d. food web.

51. Which of the following particles are very close together ?

- a. Oxygen gas. b. Water. c. Oil. d. Wood.

52. The is used to make electrical wires due to its properties.

- a. glass b. wood c. helium d. copper

53. The gas that is produced from photosynthesis process is

- a. carbon dioxide. b. oxygen. c. nitrogen. d. hydrogen.

54. The marine food web usually starts with

- a. clam. b. zooplankton. c. algae. d. parrotfish.

55. Particles of are very close to each other.

- a. oxygen b. steam c. milk d. gold

56. Burning of fuel in cars is considered as change of matter

- a. chemical b. physical c. physical and chemical

57. The of the plant absorbs water and nutrients from the soil.

- a. stems b. Leaves c. flowers d. roots

58. carry blood that is rich in oxygen and glucose from the heart to the body cells.

- a. Veins b. lungs c. Arteries d. Lungs and veins

59. In a food chain the energy transfers from

- a. a predator to prey to a predator. b. a prey to a predator
c. a predator to a producer. d. a consumer to a producer

60. All the following happen to the particles of oil when it is cooled, except that they

- a. move slower. b. move faster. c. vibrate less. d. come close together.

61. The physical property of milk that you can see is the of it.

- a. odor b. texture c. color d. taste

62. Glucose sugar is transported from the leaves to all parts of the plant through

- a. chlorophyll. b. stomata. c. xylem. d. phloem.

63. Organisms that break down dead animals and plants are called

- a. decomposers. b. consumers. c. preys. d. producers

64. When water is heated, its particles

- a. move slower. b. move faster.
c. move with same speed. d. don't move

65. All of the following are physical properties of matter except

- a. color. b. shape. c. rust. d. texture.

66. Potato plant has stem.

- a. upright b. climb c. tuber d. runner

67. The green plants can make their own food through

- a. roots. b. leaves. c. stems. d. flowers.

68. Any food chain starts with

- a. Insects. b. fungi. c. plants. d. bacteria.

69. The plant can make its own food during a process called

- a. reproduction.
- b. seed dispersal.
- c. photosynthesis.
- d. respiration.

70. The food chain starts with living organisms.

- a. producers
- b. consumers
- c. decomposers
- d. predators

71. A state of matter that has definite shape and definite volume is

- a. solid.
- b. liquid.
- c. gas.
- d. all the previous.

72. When corals the seawater, they may ingest microplastics.

- a. evaporate
- b. filter
- c. cool
- d. warm

73. is the solid state of water.

- a. Water
- b. Ice
- c. Steam
- d. Water vapor

74. All the following factors pollute the water, except

- a. plastic garbage.
- b. animals wastes.
- c. sunlight.
- d. human wastes.

75. The plant needs air in the photosynthesis process using

- a. root.
- b. xylem.
- c. phloem.
- d. stomata.

76. The measuring unit of mass is

- a. liter.
- b. gram.
- c. cm.
- d. ml.

(3) Complete the following sentences using the words below*1. (overfishing - shelter - toxic - predator)**

1. Healthy natural resources include clean air, healthy food, water and suitable
2. The human activity that directly decreases the marine population is known as
3. When a sea turtle eats a jellyfish, this means that the sea turtle is a living organism.
4. Plastic waste materials are very harmful to marine organisms, because they are and sharp.

2. (solid - liquid - gas - space - particles)

1. The state of matter that has a definite volume, but it doesn't have a definite shape is state.
2. Volume is the amount of that matter takes up.
3. We can classify the states of matter into liquid, and
4. Matter is made up of tiny

3. (chemical - physical - rough - odor)

1. Both of odor and texture of matter are considered from the properties of matter.
2. You can identify the of a juice by using the sense of smell.
3. We can describe the texture of sugar crystals by saying "it has crystal texture".
4. The ability of a piece of iron to rust is from the properties of matter

4. (physical - overfishing - shelter - chemical)

1. Iron rusting is from the changes of matter.
2. is from human activity that harm marine ecosystem.
3. Odor and texture are from properties of matter.
4. is a healthy natural area include clean air, food and water.

5. (tubers - habitats - decomposers - microorganisms - seed dispersal - ecosystem)

1. Traveling by wind and floating on water are from ways of
2. are organisms that decay dead animals and plants.
3. The potato stems extend underground and called
4. are the producers in the marine food web

6. (stomata - liquid - evaporation - chemical)

1. The ability of a piece of iron to rust is from the properties of the matter.
2. Salt can be separated by of salty water.
3. Without in the leaves of plants, gases can't move into or out of the plant.
4. The state of matter that has a definite volume, but it doesn't have a definite shape is state.

7. (phloem - primary consumers - measuring cup - melting)

1. We can change ice into water by using process.
2. is used to determine the volume of an amount of water.
3. The tubes that carry food from leaves to all the plant parts are called
4. Humans can eat producers and

8. (organisms - particles - 0° C - imbalance - 100° C)

1. When a drought occurs in a lake, it causes in ecosystem.
2. All matter is made up of tiny
3. The freezing point of water is
4. All need a source of energy

***(4) Complete the following :**

1. Throwing plastic garbage and waste materials into a river causes water
2. Without in the leaves of plants, gases can't move in or out of the plant.
3. Melting of wax is a change, while burning of wood is a change.
4. When we heat an ice cream, it and becomes liquid.
5. Digestion of food is considered as a change of matter.
6. You can use a to measure the mass of a matter, while you can use a to measure its temperature.
7. An area that provides food, water and shelter to all living organisms which live in it, is known as
8. Helium is not or, so it is considered as a safe gas.
9. The food of plant is a type of which is made in their by photosynthesis process.
10. Sunlight energy converts and into glucose inside the plant's leaves.
11. Bacteria and fungi are considered as organisms, while rabbits are considered as organisms.
12. Particles of matter can slide over each other, so they take the of their containers.
13. We can use gas to fill blimps because it is than air.
14. Sea cannot differentiate between a jellyfish and a piece of in the water.
15. Veins carry blood that contains from the body parts to
16. Changing water from solid state to liquid state by heating called while changing water from gaseous state to liquid state is called
17. When ice is melted it changed from state to state.
18. and take the shape of their containers.
19. In plant's leaves, energy of the Sun changes into energy.
20. Bacteria and are from living organisms that break down dead organisms.
21. Water is the matter in state, while water vapor is the matter in state.

22. We can separate sand from water by process, and salt from water by process.
23. Trees and other plants make food through process.
24. You can separate the mixture of by evaporation.
25. Flowers are the parts of many plants.
26. Bacteria and fungi are examples of
27. Mixing baking soda with vinegar is an example of changes.
28. The plants leaves have tiny openings called
29. Microorganisms are found in water habitats.
30. is a copy that is similar to real thing that shows what it looks like or work like.
31. In plants, are responsible for absorption of water and nutrients from the soil.
32. You can measure the volume of a matter by using
33. When particles of a matter gain thermal energy, their motion become
34. The system transports nutrients and oxygen to cells and organs in human

***(5) Put (√) or (X) :**

1. The mass and properties of oil will change when mixing it with vinegar. ()
2. Particles of all matter are in a continuous motion. ()
3. Xylem helps the plant to get water from the soil. ()
4. Air enters plants through roots. ()
5. All plants need the same way to disperse their seeds. ()
6. If coral reefs are destroyed, many marine food chains will be destroyed. ()
7. Vinegar and frozen vegetables have definite shape. ()
8. Healthy habitats provide living organisms with clean air, healthy food and water. ()
9. When particles of a matter absorb thermal energy, they move slower. ()
10. Recycling nutrients back to the ecosystem is the main function of the consumers. ()
11. From the chemical properties of helium is that it is not flammable. ()
12. We can differentiate between sugar and flour by texture. ()
13. When a solid matter gains thermal energy, it will change into liquid state. ()
14. Plants and humans are similar in the way of getting food. ()
15. Human can eat plants and animals. ()
16. We can use thermometer to measure the temperature of a hot cup of tea. ()
17. If we increase the temperature of some pieces of ice, they will melt. ()
18. Photosynthesis process takes place in the plant roots. ()
19. The first link in any food chain is a consumer ()
20. Phloem transports food materials from the leaves to the other parts of the plant. ()
21. A desert food chain doesn't contain any type of fish. ()
22. A model of an airplane shows us how it flies up into the air. ()
23. Plant's stem has hairs that absorb oxygen gas from the air. ()
24. Birds are secondary consumers, because they eat insects that feed on plants. ()
25. Microorganisms are producers that small fish feed on to get energy. ()
26. The speed of water vapor particles is greater than that of water particles. ()
27. Light is important for plant growth. ()

Science	First Term 2023/2024	Grade 5
28. Water and carbon dioxide are absorbed by plant's roots to help the plant to grow.	()	
29. Light and sound are forms of matter.	()	
30. Liquids don't take the shape of the container that they are placed in.	()	
31. Desalination process is the process of removing salt from water by cooling only.	()	
32. By decreasing the temperature of matter, the speed of its particles will increase.	()	
33. All living organisms need energy.	()	
34. Producers need consumers to live and grow.	()	
35. If coral reefs are destroyed, many marine food chains will be destroyed.	()	
36. Roots fix the plant in the soil.	()	
37. Any food chain starts with bacteria.	()	
38. All matter are made up of tiny particles.	()	
39. A thermometer is used to measure the length of a book.	()	
40. Volume is the space that is taken by a matter.	()	
41. Chlorophyll in plant's root absorbs sunlight.	()	
42. Ice and gold are examples of solid state of matter.	()	
43. Veins carry blood rich in oxygen and nutrients	()	
44. Green plants can grow well in a dark room.	()	
45. Food chains start with decomposers.	()	
46. Liquid particles move faster than solid particles.	()	
47. Ice is considered the solid state of matter	()	
48. Blood moves only in one direction in human's veins or arteries.	()	
49. Chemical changes as rusting of iron can be reversed easily.	()	
50. Food and oxygen provide the body with the energy needed.	()	
51. When the matter gain more energy, it can change to different states	()	
52. There is no interaction between the components of an ecosystem	()	
53. Helium takes the shape and the volume of its container.	()	
54. Desalination process contains filtration process only.	()	
55. Rusting of iron is a physical change	()	

Science	First Term 2023/2024	Grade 5
56.Xylem is important for plants to transfer water from plants roots to leaves.	()	
57.Coral reefs bleaching occurs when the temperature of seawater decreases	()	
58.Handles of cooking pans are made up of wood or plastic.	()	
59.The roof of desert home is similar to rainforest home.	()	
60.Food web shows interaction between many living organisms.	()	
61.Plants stems absorb oxygen gas from the air	()	
62.Iron spoon is attracted to the magnet.	()	
63.If we increase the temperature of ice, it will melt.	()	
64.Gram is the measuring unit of mass	()	
65.Stomata allow gases to move into and out of the plant.	()	
66.Coconut seeds disperse by wind.	()	
67.The matter can be changed from state to another by changing its temperature.	()	
68.Water pollution doesn't affect food chains in the ecosystem.	()	
69.Metal rusts due to chemical changes that occur to the material.	()	
70.Coral bleaching has a positive impact on coral reefs.	()	
71.Cutting wood into pieces changes its mass and color.	()	
72.A flower is a reproductive part of the plant.	()	

✱(6) Correct the underline :

1	Due to rising of water temperature, coral reefs turn completely into <u>green</u> .	(.....)
2	Tree trunks are <u>climb</u> stems	(.....)
3	There are tiny holes on the <u>stem</u> to allow gases passes into the plant	(.....)
4	Plant's <u>leaves</u> help it to be fixed in the soil.	(.....)
5	Humans can get their food from <u>air</u> and animals	(.....)
6	<u>Oxygen</u> gas is absorbed by plant's leaves to make photosynthesis process.	(.....)
7	Chlorophyll in the plant's <u>roots</u> absorbs energy from the slanted	(.....)
8	Potato plants have <u>runner</u> stems.	(.....)
9	Plants make <u>digestion</u> process to make their own food	(.....)
10	Plants take air through tiny holes on the <u>stem</u> called stomata.	(.....)
11	The <u>stem</u> fixes the plant in the soil.	(.....)
12	Plants use <u>oxygen</u> gas during the photosynthesis process	(.....)
13	<u>Gentle</u> rain causes floods and damages the desert ecosyste	(.....)
14	Plastic is <u>healthy and smooth</u> , so it causes harm to the marine living organisms.	(.....)
15	Human is considered a <u>producer</u>	(.....)
16	Algae are producers in the <u>desert</u> ecosystems	(.....)

17	The roof of a desert home is <u>slanted</u> .	(.....)
18	A thermometer is a tool used to measure the <u>mass</u> of materials	(.....)
19	The roof of a tropical rainforest home is made up of <u>ceramic tiles</u>	(.....)
20	<u>A measuring tape</u> is a tool used to measure the volume of materials	(.....)
21	<u>Kilogram</u> is a measuring tool of length .	(.....)
22	A paperclip has a mass of about <u>1,000</u> g.	(.....)
23	One liter of water has a mass of one <u>gram</u> .	(.....)
24	When particles of matter move quickly, they produce <u>light</u> energy.	(.....)
25	We use <u>steel</u> to make electric wires because it is a good conductor of electricity.	(.....)
26	The handles of cooking pans are made up of <u>copper</u> .	(.....)
27	Freezing water changes it into a <u>liquid</u> state.	(.....)
28	Burning wood is considered a <u>physical</u> change.	(.....)
29	The particles of matter move <u>slower</u> and become further from each other in the evaporation process.	(.....)
30	Vegetable salad is considered a <u>compound</u> .	(.....)
31	Iron is considered a solid because it has a definite <u>color</u> and Shape.	(.....)
32	If the temperature of water increases, it <u>melts</u> and turns into steam.	(.....)
33	When a matter is cooled, its particles move <u>faster</u> .	(.....)

☀(7) Matching:

1

A	B
1. Condensation	a. is the change of water from solid state to liquid state
2. Melting	b. is the change of water from gas state to solid state.
3. Freezing	c. is the change of water from gas state to liquid state.
4. Evaporation	d. is the change of water from liquid state to gas state
	e. is the change of water from liquid state to solid state.

1-

2-

3-

4-

5-

2

A	B
1. Veins	a. floating on water.
2. Coconut seeds	b. carry carbon dioxide gas from the body parts to the heart
3. Carbon dioxide	c. is a solid matter.
4. Sand	d. is needed for photosynthesis process.

1-

2-

3-

4-

3

A	B
1. Plants' roots	a. are animals that are hunted by other animals
2. Xylem	b. are organisms that eat plants.
3. Prey	c. transports water rich in nutrients up to the leaves
4. Primary consumers	d. absorb water and nutrients from the soil.

1-

2-

3-

4-

4

A	B
1. Overfishing	a. makes the desert ecosystem get better
2. Gentle rain in the desert	b. leads to floods.
3. Heavy rain in the desert	c. may destroy the marine ecosystem

1-

2-

3-

5

A	B
1. Potato	a. are organisms which eat animals that eat plants.
2. Runners stem	b. plant has climb stems.
3. Vine	c. plant has tuber stem.
4. Secondary consumers	d. extends above the ground.

1-

2-

3-

4-

6

A	B
1. Tomato seeds	a. disperse by animals' digestive systems.
2. Dandelion seeds	b. disperse by floating on water
3. Coconut seeds	c. disperse by wind.
4. Predators	d. disperse by sticking to animals' fur.
	e. are animals that feed on other animals

1-

2-

3-

4-

7

A	B
1. Microorganisms	a. means the increase or decrease in the number of one species in and area.
2. Population change	b. are small plastic pieces that are even Smaller than a grain of rice
3. Microplastics	c. are producers in the marine food web.

1-

2-

3-

8

A	B
1. Coral bleaching	a. can make their own food.
2. Seabirds	b. means the coral turns into white.
3. Microorganisms	c. are primary consumers.
4. Clams	d. dive to search for food.

1-

2-

3-

4-

9

A	B
1. Oxygen	a. Solid state
2. Desk	b. Liquid state
3. Juice	c. Gas state

1-

2-

3-

10

A	B
1. Steel	a. is used to make tires.
2. Rubber	b. is used to make cooking pans
3. Copper	c. is used to make eyeglasses.
4. Glass	d. is used to manufacture screwdrivers

1-

2-

3-

4-

11

A	B
1. Condensation	a. is the change of matter from a solid state to a liquid state
2. Freezing	b. is the change of matter from a gaseous state to a liquid state.
3. Melting	c. is the change of water from a liquid state to a solid state
4. Evaporation	d. is the change of water from a liquid state to a gaseous state

1-

2-

3-

4-

✱ (8) Cross odd word :

1. Oil - Milk - Water - Wood.
2. Roots - Stems - Leaves - Sunlight.
3. Wood - Iron - Oxygen - Gold.
4. Carbon dioxide gas - Sunlight - Water - Oxygen gas.
5. Wood - Iron - Oxygen - Plastic.
6. Pine trees - Apple trees - House flies - Grasses.
7. Carbon dioxide gas - Water - Glucose sugar - Sunlight
8. Heart - Roots - Stems - Leaves
9. Green plant - Shelter - Water - Carbon dioxide gas
10. Arteries - Veins - Stem – Blood
11. Foxes - Lions - Tigers - Frogs
12. Eagle - Hawk - Rabbit - Crocodile
13. Bacteria - Cows - Birds – Snakes
14. Plastic - Iron - Water - Wood
15. Water - Milk - Sand - Oil.
16. Sound - Light - Ice
17. Oil - Milk - Wood - Tea
18. Air - Water vapor - Ice - Carbon dioxide gas
19. Water - Air - Light - Wood

★(9) Give reason:

1. The roof of desert home is made of strong stones.
2. Human needs to eat some animals and plants
3. Ice is turned into water when it is placed in a warm room.
4. Chlorophyll in plant leaves is very important in photosynthesis process.
5. Balloons and blimps filled with helium always rise up in the air.
6. Human can use helium gas safely
7. Iron and wood are solid state of matter.
8. Wood has definite shape and volume.
9. Both melting and freezing processes are considered as physical changes.
10. Xylem vessels are important for the plant.
11. Photosynthesis process is important for plants to survive.
12. Snakes are secondary consumers.
13. Circulatory system has an important role for human to survive
14. When the temperature of ice cubes increases, they will melt.
15. The roof of tropical rainforest home is made of leaves and sticks.
16. Sunlight is important for all living organisms.
17. Oxygen has no definite shape or volume.

✱(10) What happens to ... ?

1. The speed of particles of an ice cube when it is exposed to the Sun.
2. A plant is placed in a dark place for many days.
3. A magnet is put close to an iron nail and a plastic spoon.
4. Plants have no stems.
5. Plant's leaves don't contain chlorophyll.
6. The microorganisms if the seawater becomes warm
7. The temperature of a matter if the speed of its particles decreases.
8. A small lake is exposed to extreme hot climate for several months
9. The speed of the particles of a liquid if it changes into gas.
10. A plant is placed in a dark place for many days.
11. We remove the flowers of a plant.
12. If there is no sunlight reaches the Earth's surface.
13. We put a seed of bean in wet soil for many days.

Model Answer

✱ (1) Write the scientific term:

1. Prey	12. Evaporation	21. Decompose	30. Arteries	39. Solid	51. Copper
2. Water	13. Measuring tape	22. Volume	31. Phloem	40. Solid	52. Steel
3. Roots	14. Top	23. Helium	32. Xylem	41. Gas	53. Glass
4. Melting	15. Overfishing	24. Stomata	33. Sun	42. Liquid	54. Rubber
5. Volume	16. Oxygen	25. Carbon dioxide	34. Photosynthesis	43. Gas	55. Chemical change
6. Globe	17. Electron microscope	26. Decompose	35. Decomposition	44. Measuring tape	56. Condensation
7. Reproduction	18. Liquid	27. Flowers	36. Secondary consumer	45. Particles	57. Matter
8. Producers	19. Photosynthesis	28. Stomata	37. Food web	46. Mass	58. Rust
9. Seabirds	20. Flowers	29. Circulatory system	38. Decompose	47. Melting	59. Flower
10. Solid			39. Solid	48. Freezing	60. Liquid
11. Physical change			40. Solid	49. Model	61. Solid
			41. Gas	50. Volume	

✱ (2) Choose the right answer:

1. C	14. C	27. A	40. A	53. B	66. C
2. C	15. C	28. B	41. A	54. C	67. B
3. B	16. C	29. B	42. C	55. D	68. C
4. C	17. B	30. A	43. C	56. A	69. C
5. B	18. C	31. D	44. B	57. B	70. A
6. C	19. B	32. A	45. B	58. C	71. A
7. B	20. B	33. C	46. A	59. B	72. B
8. B	21. A	34. A	47. C	60. B	73. B
9. B	22. A	35. C	48. D	61. C	74. C
10. B	23. B	36. D	49. C	62. D	75. D
11. C	24. C	37. A	50. C	63. A	76. B
12. C	25. D	38. C	51. D	64. B	
13. A	26. C	39. C	52. D	65. C	

✱ (3) Complete the following sentences using the words below

1. shelter 2. Overfishing 3. predator 4. toxic
1. liquid 2. space 3. Gas - solid 4. particles
1. physical 2. odor 3. rough 4. chemical
1. chemical 2. Overfishing 3. physical 4. shelter
1. seed dispersal 2. decomposer 3. tubers 4. Microorganisms
1. chemical 2. evaporation 3. stomata 4. liquid
1. melting 2. Measuring cup 3. phloem 4. Primary consumers
1. imbalance 2. particle 3. 0°C 4. organisms

***(4) Complete the following :**

1. Pollution	10. Carbon dioxide – water	18. Liquid – gas	27. Chemical
2. Stomata	11. Decomposers – consumer	19. Light – chemical	28. Stomata
3. Physical – chemical	12. Liquid – shape	20. Fungi – decomposer	29. Cold
4. Melts	13. Helium – lighter	21. Liquid – gaseous	30. Model
5. Chemical	14. Turtle – plastic	22. Filtration – evaporation	31. Roots
6. Balance – thermometer	15. Carbon dioxide – heart	23. Photosynthesis	32. Measuring cup
7. Ecosystem	16. Melting – condensation	24. Salty water	33. Faster
8. Flammable – poisonous	17. Solid – liquid	25. Reproductive organism	34. Circulatory
9. Sugar – leaves			

***(5) Put (√) or (X) :**

1. (X)	13. (√)	25. (√)	37. (X)	49. (X)	61. (X)
2. (√)	14. (X)	26. (√)	38. (√)	50. (√)	62. (√)
3. (X)	15. (√)	27. (√)	39. (X)	51. (√)	63. (√)
4. (X)	16. (√)	28. (X)	40. (√)	52. (X)	64. (√)
5. (X)	17. (√)	29. (X)	41. (X)	53. (X)	65. (√)
6. (√)	18. (X)	30. (X)	42. (√)	54. (X)	66. (X)
7. (X)	19. (X)	31. (X)	43. (X)	55. (X)	67. (√)
8. (√)	20. (√)	32. (X)	44. (X)	56. (√)	68. (X)
9. (X)	21. (√)	33. (√)	45. (X)	57. (X)	69. (√)
10. (X)	22. (√)	34. (X)	46. (√)	58. (√)	70. (X)
11. (√)	23. (X)	35. (√)	47. (√)	59. (X)	71. (X)
12. (√)	24. (√)	36. (√)	48. (√)	60. (√)	72. (√)

***(6) Correct the underline:**

1. White	10. Leaves	19. Leaves and sticks	28. Chemical
2. Wood	11. Roots	20. Measuring cup	29. Faster
3. Leaves	12. Carbon dioxide	21. Measuring tape	30. Mixture
4. Roots	13. Heavy	22. 1	31. Volume
5. Plants	14. Toxic and sharp	23. Kilogram	32. Evaporate
6. Carbon dioxide	15. Consumer	24. Thermal	33. Slower
7. Leaves	16. Marine	25. Copper	
8. Tuber	17. Flat	26. Wood / plastic	
9. Photosynthesis	18. Temperature	27. Solid	

***(7) Matching:**

1. c	2. a	3. e	4. d
1. b	2. a	3. d	4. c
1. d	2. c	3. a	4. b
1. c	2. a	3. b	
1. c	2. d	3. b	4. a
1. a	2. c	3. b	4. e
1. c	2. a	3. b	
1. b	2. d	3. a	4. c
1. c	2. a	3. b	
1. d	2. a	3. b	4. c
1. b	2. c	3. a	4. d

✱(9) Give reason:

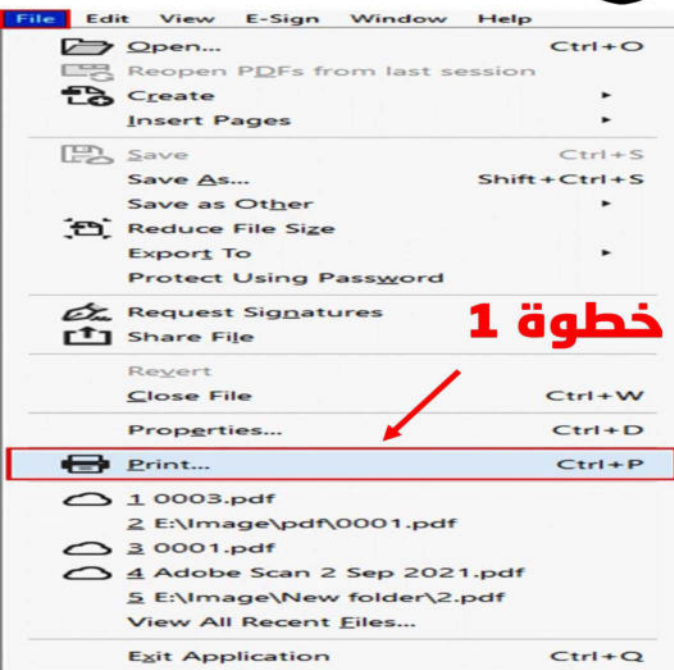
1. To protect the desert home from dust and dirt.
2. To get his needed energy to do his activities.
3. Because the temperature of ice increases, so it will melt and becomes liquid.
4. Because chlorophyll absorbs the energy from sunlight that helps the plant to make photosynthesis process.
5. Because helium is lighter than air.
6. Because helium is not flammable or poisonous.
7. Because it has definite shape and volume.
8. Because it is a solid matter.
9. Because in these processes the matter changes without any change in its structure.
10. Because they transport water and nutrients to the plant's leaves.
11. Because it helps the plant to make its own food.
12. Because they feeds on primary consumer
13. Because It transports oxygen and nutrients through the blood to all the body parts.
14. Because ice cubes will gain thermal energy, so it changes to liquid water
15. To protect the tropical rainforest home from animals getting inside.
16. Because it is absorbed by the plants leaves to make their own food .
17. Because it is a gas matter

✱(10) What happens to ... ?

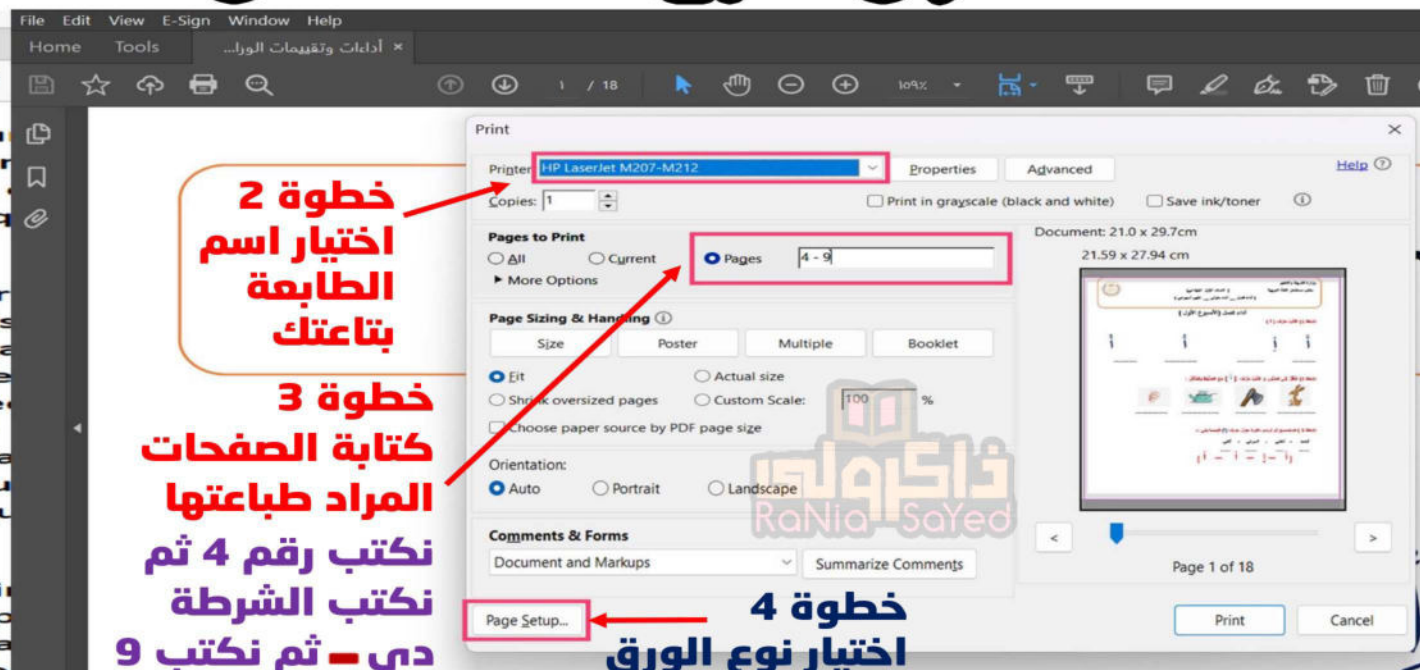
1. It will increase.
2. The plant can't make photosynthesis process and it will die.
3. It will attract the iron nail
4. Water and nutrients will not be carried from the roots to the leaves.
5. The plant can't absorb the energy from sunlight and can't make photosynthesis process.
6. The microorganisms will move away to a cooler water and also fish that feed microorganisms.
7. The temperature of the matter will decrease.
8. The water of the lake decreases due to its evaporation and may completely disappear.
9. It will increase.
10. The plant can't make photosynthesis process and it will die.
11. The plant can't produce seeds that help it to reproduce
12. The plants cannot make their own food by photosynthesis process, so there will be no life on Earth.
13. It will germinate and grow well.

كيفية طباعة صفحات معينة من ملف معين

مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



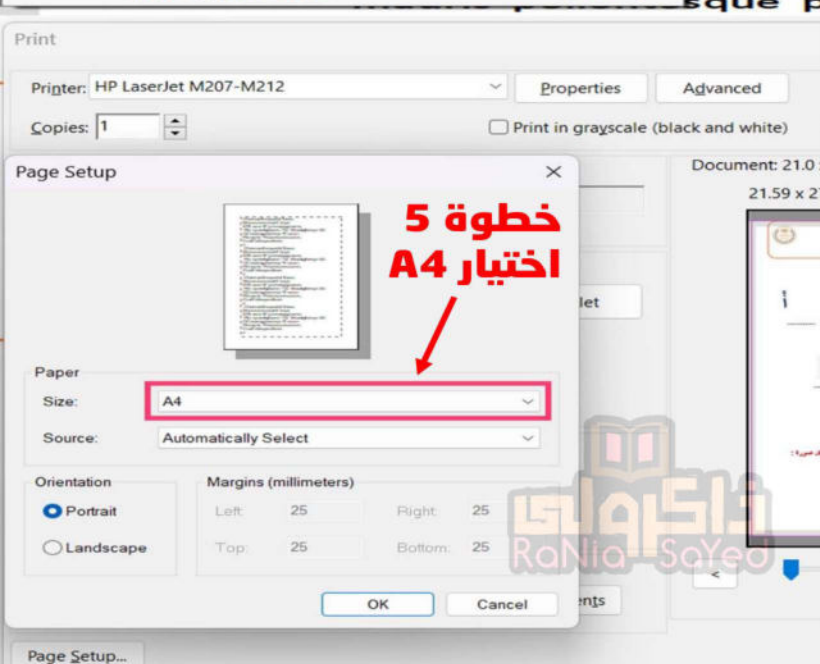
خطوة 1



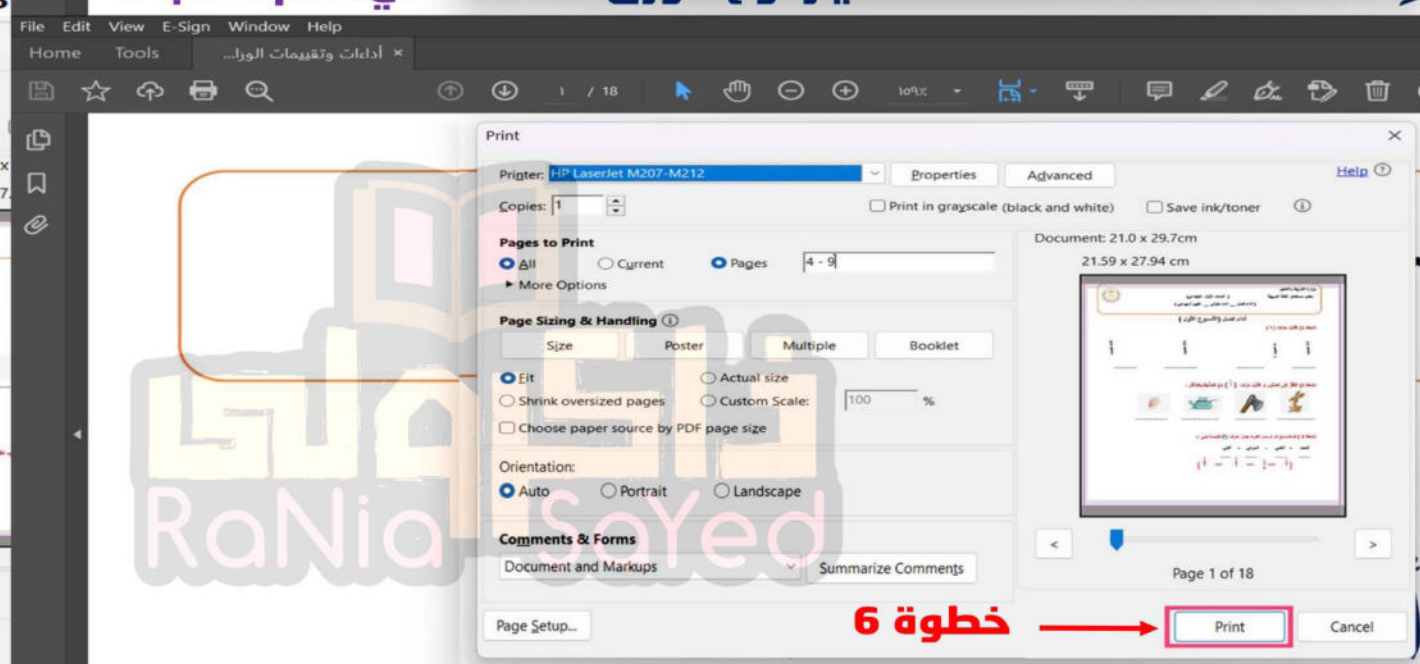
خطوة 2
اختيار اسم
الطابعة
بتاعتك

خطوة 3
كتابة الصفحات
المراد طباعتها
نكتب رقم 4 ثم
نكتب الشرطة
دي - ثم نكتب 9

خطوة 4
اختيار نوع الورق



خطوة 5
اختيار A4



خطوة 6